CONSTRUCTION NEWS

PROPOSALS

For proposals Advertised see the pages immediately following the "Construction News" Section.

WATERWORKS

Bids Close		See Eng. News-Record
Nov. 28	St. Paul, Minn.	Nov. 24
Nov. 29	Elgin, Kan.	Nov. 24
Dec. 1	Decatur, Tex.	Nov. 10
Dec. 1	Cleveland O.	Nov. 10
Dec. 2	West Park, O.	Nov. 24
Dec. 2	Cleveland, O.	Nov. 24
Dec. 5	Syracuse, N. Y. Adv. Nov. 24	Nov. 24
Dec. 5	Buffalo, N. Y.	Nov. 24
Dec. 16	Cleveland, O. Adv. Nov. 24	Nov. 24

SEWERS

Nov. 28	Winona, Minn.	Nov. 17
Nov. 28	Benton, Ill.	Nov. 17
Nov. 29	Spokane, Wash.	Nov. 17
Nov. 29	Newark, N. J.	Oct. 27
Nov. 29	Florence, Kan.	Nov. 24
Nov. 29	Des Moines, Ia.	Nov. 24
Dec. 1	Salt Lake City, Utah	Nov. 17
Dec. 1	Richmond, Va. Adv. Nov. 17 and 24.	Nov. 24
Dec. 1	Brooklyn, N. Y.	Nov. 24
Dec. 5	Columbia, Mo. Adv. Nov. 17 and 24.	Nov. 24
Dec. 6	Rutherford, N. J.	Nov. 24
Dec. 13	Harrison, N. J.	Nov. 17
Dec. 20	Passaic, N. J.	Nov. 24

BRIDGES

Nov. 29	Shadesville, O.	Nov. 3
Nov. 29	Maryland	Nov. 17
Nov. 29	North Carolina	Nov. 17
Nov. 29	Yankton, S. D.	Nov. 24
Dec. 2	West Virginia Adv. Nov. 17 and 24.	Nov. 17
Dec. 2	New Ulm, Minn.	Nov. 24
Dec. 6	Del Rio, Tex.	Nov. 24
Dec. 8	Morgantown, W. Va. Adv. Nov. 17 and 24.	Nov. 17
Dec. 9	North Carolina	Nov. 24
Dec. 10	Madison, W. Va. Adv. Nov. 17 and 24.	Nov. 17
Dec. 13	Phila., Pa.	Nov. 17
Dec. 19	Phila., Pa.	Nov. 17

DAMS

Dec. 17	Phoenix, Ariz.	Nov. 17

EXCAVATION AND DREDGING

Dec. 3	Mantorville, Kan.	Nov. 24
Dec. 5	Yankton S. D.	Nov. 17
Dec. 6	Duluth, Minn.	Nov. 24
Jan. 7	Riverton, Wyo.	Nov. 10
Jan. 7	Duluth, Minn.	Oct. 13

STREETS AND ROADS

Nov. 28	Cleveland, O.	Nov. 10
Nov. 28	California	Nov. 17
Nov. 28	New York, N. Y.	Nov. 24
Nov. 28	Los Angeles, Cal.	Nov. 24
Nov. 29	Wilmington, N. C.	Nov. 10
Nov. 29	Alabama	Nov. 10
Nov. 29	Vermont Adv. Nov. 17 and 24.	Nov. 17
Nov. 29	Minnesota	Nov. 17
Nov. 29	Salt Lake City, Utah.	Nov. 24
Nov. 29	Denison, Tex.	Nov. 24
Nov. 29	Devils Lake.	Nov. 24
Nov. 30	St. George, S. I.	Nov. 24
Nov. 30	Minnesota	Nov. 17
Dec. 1	Woodbury, N. J. Adv. Nov. 17 and 24.	Nov. 17
Dec. 1	Brooklyn, N. Y.	Nov. 24
Dec. 1	Melbourne, Fla.	Nov. 24
Dec. 1	Eastland, Tex.	Nov. 24
Dec. 2	Alabama	Nov. 10
Dec. 2	Minnesota	Nov. 24
Dec. 2	Buffalo, Neb.	Nov. 24
Dec. 5	California	Nov. 24
Dec. 5	Santa Barbara, Cal.	Nov. 24
Dec. 5	Greenville, Tex.	Nov. 24
Dec. 6	Gastonia, N. C. Adv. Nov. 17 and 24.	Nov. 17
Dec. 6	Del Rio, Tex.	Nov. 24
Dec. 6	Calexico, Cal.	Nov. 24
Dec. 7	Ventura, Cal.	Nov. 24
Dec. 7	Salina, Kan.	Nov. 3
Dec. 9	Minnesota	Nov. 24
Dec. 13	Morton, Wash.	Nov. 17
Dec. 13	Atchinson, Kan.	Nov. 17
Dec. 13	Dunedin, Fla.	Nov. 24
Dec. 16	West Virginia, Adv. Nov. 24	Nov. 24
Dec. 19	Elmhurst, Ill.	Nov. 17
Dec. 20	Kansas City, Kan.	Nov. 17
Dec. 21	Little Falls, Minn.	Nov. 24
Dec. 23	Iola Kan.	Nov. 24

INDUSTRIAL WORKS

Nov. 29	West Chicago, Ill.	Nov. 24
Nov. 29	St. Louis, Mo.	Nov. 24
Nov. 29	Rock Island, Ill.	Nov. 24
Dec. 1	Charlotte, N. C.	Nov. 17
Dec. 1	Phila., Pa.	Nov. 17
Jan. 1	Cumberland, Wis.	Nov. 17
Dec 2	Minneapolis, Minn.	Nov. 24

BUILDINGS

Nov. 29	Dayton, O.	Nov. 17
Nov. 29	Amboy, Ill.	Nov. 24
Dec. 1	Detroit, Mich.	Nov. 17
Dec. 1	McCook, Neb.	Nov. 24
Dec. 2	Elizabeth, N. J.	Nov. 17
Dec. 2	Dayton, O.	Nov. 17
Dec. 5	Kerrville, Tex.	Nov. 24
Dec. 5	Palmyra, N. J.	Nov. 10
Dec. 5	Kalamazoo, Mich.	Nov. 24
Dec. 6	Thiells, N. Y. Adv. Nov. 17 and 24.	Nov. 17
Dec. 6	Glassboro, N. J.	Nov. 24
Dec. 6	Detroit, Mich.	Nov. 24
Dec. 7	Saginaw, Mich.	Nov. 17
Dec. 9	Minneapolis, Minn.	Nov. 24
Dec. 10	Gainesville, Fla.	Nov. 10
Dec. 12	Tallahassee, Fla.	Nov. 17
Dec. 12	Kalamazoo, Mich.	Nov. 24
Dec. 14	Huron, S. D.	Nov. 17
Dec. 15	Dayton, O.	Nov. 17
Dec. 15	Lawrence, Mass.	Nov. 17
Dec. 15	Independence, Kan.	Nov. 24
Dec. 15	Castalia, O.	Nov. 24
Dec. 20	Missoula, Mont.	Oct. 20
Dec. 20	Bozeman, Mont.	Oct. 20
Dec. 20	Butte, Mont.	Oct. 20
Dec. 23	Eldorado, Kan.	Nov. 24
Jan. 1	Detroit, Mich.	Nov. 17
Jan. 15	Laramie, Wyo.	Sept. 29
Feb. 1	Williamsport, Pa.	Sept. 8
Feb. 1	Duluth, Minn.	Oct. 27

FEDERAL GOVERNMENT WORK

Nov. 28	Dredging—Baltimore, Md. Adv. Nov. 3 to 24.	Nov. 3
Nov. 29	Home—Dayton, O.	Nov. 24
Nov. 30	Dredging—Savannah, Ga. Adv. Nov. 3 to 24.	Nov. 3
Nov. 30	Mechanical Equipment — Walla Walla, Wash.	Nov. 17
Nov. 30	Water Supply System—Yorktown, Va. Adv. Nov. 17 and 24.	Nov. 17
Nov. 30	Ovens—Mare Island, Cal.	Nov. 24
Dec. 1	Riprap and Breakwater — Galveston, Tex.	Nov. 17
Dec. 1	Road—Denver Col.	Nov. 17
Dec. 2	Refrigerating Plant, etc. — Norfolk, Va.	Nov. 17
Dec. 5	Loading Shed, etc—Brunswick, N. J.	Nov. 24
Dec. 6	Changes to Services, etc— Oteen, N. C. Adv. Nov. 24	Nov. 24
Dec. 7	Storehouse—Pearl Harbor, H. T.	Oct. 6
Dec. 7	Dredging—Norfolk, Va. Adv. Nov. 24	Nov. 24
Dec. 13	Alterations — Columbia, S. C. Adv. Nov. 24	Nov. 24
Dec. 28	Valve—Denver. Col.	Nov. 17
Dec. 29	Structures—Savage, Mont.	Nov. 17

MISCELLANEOUS

Nov. 28	Dike—Revere, Mass.	Nov. 3
Nov. 28	Piles—Portland, Me.	Nov. 3
Nov. 29	Ornamental Lights — Long Branch, N. J. Adv. Nov. 17 and 24.	Nov. 17
Nov. 29	Supplies—Toronto—Ont.	Nov. 24
Nov. 30	Stadium—Chicago, Ill.	Oct. 20
Nov. 30	Heating and Plumbing System —Rochester, N. Y.	Nov. 17
Nov. 30	Binder Stone, etc — New York, N. Y.	Nov. 24
Dec. 1	Foundation—Chicago, Ill.	Nov. 10
Dec. 5	Enclosures — Brooklyn, N. Y.	Nov. 24
Dec. 20	Electric Wiring, etc—Brooklyn, N. Y. Adv. Nov. 24	Nov. 24
Dec. 23	Oil Tanks and Boilers—New Orleans, La. Adv. Nov. 3 to 24	Nov. 3

Where name of official is not given inquiries should be addressed to City Clerk, County Clerk or corresponding official.

Waterworks

PROPOSED WORK

O., Kingston—Defeated $100,000 bonds for new water works and disposal plant.

Ia., Modale—Voted $14,300 bonds waterworks, incl. well pump and 6,000 ft. c.i. mains. C. L. Huff, Logan, engr.

Kan., Sabetha—Voted $60,000 bonds to develop springs as source of supply. Black & Veatch, Interstate Bldg., Kansas City, Mo., engrs.

S. D., Groton—Plans standpipe, extending and relaying mains, etc. $30,000 bonds voted. R. F. Mohr, clk. Engineer not announced.

Mo., Ash Grove—Plans waterworks. $40,000. Engineer not selected.

N. H., Bennington — Monadnock Paper Mills, concrete storage dam, to Aberthaw Constr. Co., 27 School St., Boston, Mass. $15,000.

Idaho, Post Falls—Post Falls Irrigation Dist. plans supply line, 27,320 lin.ft. 14-42 in. wood stave pipe. $150,000. Engineer not seected.

Utah, Circleville—Making plans for waterworks, distributing system, hydrants, valves, etc. $40,000. Caldwell & Richards, Templeton Bldg., Salt Lake City, engrs. Noted Nov. 10.

Que., Hull—See "Streets and Roads."

Ore., Grants Pass — Plans pumping plant and distribution system to irrigate 800 acres. $25,000. G. Stubblefield, Grants Pass, engr.

Que., Montreal—Plans laying 9,240 ft. 12 in. mains from Cremazie to Decarie Blvds, $80,000. F. V. Dowd, City Hall, engr.

Ont., Petrolea—Having plans prepared for reservoir and electrical centrifugal pumps. $42,000. James, Proctor & Redfern, 36 Toronto St., Toronto, engrs.

BIDS DESIRED

N. Y., Buffalo—Dec. 5, by Dept. Pub. Wks., 2 sets of power transformers in Massachusetts Ave. pumping station and Lakeview Ave. storehouse. A. W. Kreinheder, comnr.

N. Y., Syracuse—Dec. 5 (change of date), by Bd. Contr. & Supply, City Hall, c.i. pipe and specials or steel pipe and specials, gate valves and laying 36 in. c.i. pipe. R. D. Rodney, secy. This gives correct date on this project which was noted twice in Nov. 17 issue; adv. this issue. Noted Nov. 17.

O., Cleveland—Dec. 2, furnishing 75 gal. per minute pressure booster pump. G. B. Gascoygne, City Hall, engr.

O., Cleveland—Dec. 16, by Commissioner of Purchases & Supplies, City Hall, underpinning filters and pipe vault at Division pumping station; adv. this issue.

O., West Park—Dec. 2, mains in Banner, Sherry, Holmes, Harold, Terminal, Summerset, Garfield, Liberty and Emery Aves., Bellaire, Victory and Brookside Blvds., West 131st, West 132nd, West 134th, West 137th, West 138th and West 139th Sts. $50,000. J. Reitz, City Hall, engr.

Kan., Anthony—Nov. 29 (change of date), one 150 hp. water tube boiler, one 300 k.w. steam engine generating unit, one jet condenser and one 100 ft. chimney. $30,000. Black & Veatch, Mutual Bldg., Kansas City, Mo., engrs. Noted Nov. 3.

Kan., Elgin—Nov. 29, for 50,000 gal. tank and tower and pumping station. $35,000. Alexander & Baity, Woodruff Bldg., Springfield, Mo., engrs.

Minn., St. Paul—Nov. 28, by H. W. Austin, city purch. agt., 2,400 inverted key curb stops, 150 brass gate valves, 2,240 corporation cocks, 185 goosenecks and 925 fibre washers for Water Dept. O. Claussen, city engr.

BIDS RECEIVED

N. Y., Brooklyn—N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York, opened bids Nov. 12, mains and appurtenances in Surf Ave., Kings Highway, 75th and 78th Sts., here, from J. A. Gregory, 351 East 124th St., New York $71,502; F. L. Paino, Woodhaven, $74,137; Paladino Contg. Co., 2254 1st Ave, New York, $74,455. Noted Nov. 3.

Waterworks (Continued)

CONTRACTS AWARDED

Pa., Harrisburg—For 2 15,000,000 gal. pumps, boilers and boiler house, to J. H. Wickersham, Brennan Bldg. Lancaster, $243,622. Noted Oct. 27.

Md., Cumberland—For 1 story, 20 x 30 ft. pumping station, to Vang Constr. Co., 21 3rd. Natl. Bank Bldg., $46,000.

O., Akron—Summit Co. laying 6 mi. 4-8 in. c.i. pipe in Dist. 5, 3 mi. to W. H. Crumm, Akron, $25,000; 3 mi. to J. B. Dorris, 320 Metropolitan Bldg., $21,000.

O., Cleveland—Concrete covered reservoir, to Stange & Walsh Constr. Co., 9th Garage Bldg., $1,824,125. Noted Nov. 17.

Mich., Lincoln Park (Wyandotte P. O.)—For 80,000 ft. 6, 8, 10 and 12 in. c.i. pipe, to Oakwood Constr. Co., 165 Fort Blvd., Detroit, $125,000.

Minn., St. Paul—For 95 ton straight reinforcing steel for Water Dept., to Corrugated Bar Co., Inc., 710 Pioneer Bldg., $7,201 on cars.

Kan., Parsons — Removing present c. i. force line and constructing new supply line from Neodosha River, trenching to F. M. Sheflow, Elgin, Ill., $74,838; pipe to Amer. Cast Iron Pipe Co., Scarritt Bldg., Kansas City, Mo., $127,201; valves and hydrants to Ludlow Valve Mfg. Co., R. A. Long Bldg., Kansas City, Mo., $4,543. Noted Nov. 3.

S. D., Mobridge—For steel tank, 35,000 gal. capacity, to Pittsburgh-Des Moines Steel Co., Tuttle and 10th Sts., Des Moines, Ia., $16,785.

Neb., Lincoln—T. H. Berg, city clk., excavating and laying 9,815 ft. 8 in. and 1,280 ft. 6 in. c. i. mains and placing 22 hydrants and 38 valves in Dist. 11 on South St. from 29th to 60th Sts., to A. A. Dobson & Co., 809 1st Natl. Bank Bldg., $19,975; furnishing and erecting 2 500 hp. horizontal water-tube boilers, to Murray Iron Wks., 880 Washington St., Burlington Ia., $20,330; 1 pivoted bucket elevator conveyor, 1 30-in. apron conveyor, 1 coal crusher, 1 traveling weigh larry, to Jeffery Mfg. Co., East 1st Ave., Columbus, O., $18,650. Noted Nov. 3, under Miscellaneous.

Idaho, Post Falls—Waterworks, incl. 2-8 in. steel pipe, multiple stage centrifugal pump, etc., to Standard Asphalt Paving Co., North 517 Lincoln St., Spokane, Wash., $41,231.

Tex., Dallas — Pumping equipment for White Rock filtration plant, to A. M. Lockett, 521 Baronne St., New Orleans, La., $28,691. Noted Oct. 13.

Ont., Georgetown—Waterworks pumping plant, to Goldie & McCullough, Galt, $9,384. Noted Sept. 15.

Sewers

PROPOSED WORK

Conn., Manchester—Plans vitr. sewers in portions School, Oakland and Union Sts. $35,000. C. H. Olmstead, East Hartford, engr.

Ky., Paducah — Voted $600,000 bonds, trunk line sewers. This, along with laterals to be paid for by individual property owners, will make $1,200,000 worth of sewer construction during next 2 years. H. A. Pulliam, City Natl. Bank Bldg., engr.

O., Cleveland—Plans sewers in Amesbury Ave. from East 93rd St. to west line of Sharp allotment, Arcade Ave. from East 156th to East 167th Sts., Aspinwall Ave. extension to Nine Mile Creek, Bessemer Ave. from East 79th to East 88th Sts., Biddulph Rd. outlet sewer, Booth Ave. from East 89th St. to East 93rd Sts., Breakwater Ave. from West 58th to West 65th Sts., Britton Dr. from East 124th to East 127th Sts., Bway. from Forman Ave. to East 71st St., Broadview Rd. from old city limits to Oakpark Ave. and Carnegie Ave. from East 40th to East 55th Sts. $150,000. R. Hoffman, City Hall, engr.

O., Cleveland—Plans sewers in Cleveland Rd., Cedar, Crane and Denison Aves., East 35th, East 82nd, East 88th, East 97th, East 102nd and East 105th Sts. $150,000. R. Hoffman, City Hall, engr.

O., Cleveland—Soon takes bids furnishing 2 ton overhead crane for sewage treatment plant. G. B. Gascoygne, City Hall, engr.

O., Columbus—Plans sanitary sewers in Torrence Rd., Milton Ave., High St., Montrose Way, Dunedin Rd. from Northmore Pl. to alley west of High St., Olentangy Blvd. from Orchard Lane to north corporation line of Winthrop Rd., and various other streets and boulevards. $40,000. R. H. Simpson, city engr.

Mich., Birmingham—Plans 8,000 ft. 6, 8 and 12 in. vitr. crock sanitary sewers. H. H. Barnette, Dawson Blk., Pontiac, engr.

Ill., White Hall—Plans storm sewers. $150,000. R. F. Ballard, clk. Engineer not selected.

Wis., Kewaskum—Making plans for sanitary and storm sewers and disposal plant. $35,000. J. Donohue, 606 North 8th St., Sheboygan, engr.

Que., Hull—See "Streets and Roads."

BIDS DESIRED

N. Y., Brooklyn—Dec. 1, by E. Riegelmann, boro pres., Boro Hall, storm and sanitary sewers in Ave. S, from Ocean Parkway to Coney Island Ave., outlet storm and outlet sanitary sewers in Ocean Parkway, easterly side from Ave. S to Ave. U, Fenimore St. between Albany and Troy Aves. and Troy Ave. between Fenimore St. and Rutland Rd., 64th St. between 17th and 18th Aves., Ft. Hamilton Parkway, west side, between 41st and 42nd Sts.

N. J., Passaic—Dec. 20, by Passaic Valley Sewerage Comrs., 128 Market St., Newark, central portion of Sect. 19, Sta. 24 plus 42 to Sta. 41 plus 00, Garfield Wallington-Passaic Branch Intercepting Sewer, here, 1,100 lin.ft. earth excav. and refilling, in trench, for 48 in. concrete sewer, 558 lin.ft. earth excav. and refilling, in trench, for 42 in. concrete sewer, 1,000 cu. yd. concrete masonry, etc. J. R. Van Duyne, ch. engr.

N. J., Rutherford—Dec. 6, by Passaic Valley Sewerage Comrs., 128 Market St., Newark, Sect. 25, Rutherford-Union Branch Intercepting Sewer, Lyndhurst Twp., here. Former bids rejected. J. R. Van Duyne, ch. engr. Noted Oct. 20.

Va., Richmond—Dec. 1, at office of A. J. Saville, dir. Pub. Wks., pipe sewers in various streets; adv. this issue.

Fla., Dunedin—See "Streets and Roads."

Ia., Des Moines—Nov. 29, 10 in. vitr. clay. sewers in various streets. $28,000. J. M. Tippee, City Hall, engr.

Kan., Florence—Nov. 29, laying 30 in. sewers. $28,000. J. C. Riggs, clk. F. E. Delvin, Eldorado, engr.

Mo., Columbia—Dec. 5, 8-15 in. sewers and disposal plant. E. J. McCaustland, 103 Engineering Bldg., consult. engr.; adv. this issue.

BIDS RECEIVED

Wash., Seattle—Sewers in East 70th St., et al., 14,525 lin. ft. 8-24 in. clay or concrete pipe. (a) clay, (b) concrete, from Fiorito Bros., Thompson Blk., (a) $52,337, (b) $49,837; C. A. Schram, Thompson Blk., (a) $52,950, (b) $48,101; A. Tocco & Co., Thompson Blk., (a) $53,768, (b) $53,765.

Cal., Glendale—Sewers in Brand Blvd. and Bway., from B. D. Zaich, 220 West 56th St., Los Angeles, $25,378 J. Sutalo, 476 Camulos St., Los Angeles $27,934; P. Tomich, Los Angeles, $28,388. Noted Oct. 13.

CONTRACTS AWARDED

O., Cleveland—Sewer in Amesbury Ave. and East 51st St., to S. Amato, 343 The Arcade, $9,748; Fairmount Rd., to Iafornaro Constr. Co., 2218 Murray Hill Rd., $17,701. Work involves 270 ft. concrete and 14,000 ft. 12-20 in. vitr. pipe.

Wis., Valders—Storm and sanitary sewers, to W. O. Bahr, 8th St., Manitowoc, $25,000. Noted Sept. 2.

Ia., Dubuque—For 845 ft. 60 in., 566 ft. 54 in. and 652 ft. 36 in. storm sewers in Jackson St., to Even-Ulrich-Stauer Co., Dubuque, $34,458.

Minn., Rochester—For sanitary sewers in Sects. 1, 2 and 3, to Mankato Constr. Co., Mankato, $42,000; Sects. 4, 5, 6 and 7, to W. C. Fraser, 810 Guardian Life Bldg., St. Paul, $26,000. Noted Nov. 3.

Mo., Joplin—Septic and Imhoff tanks, near tracks of Kansas City Southern Ry., by day labor. $30,000. S. Ashcraft, city engr.

Cal., Pasadena—Sewers in Mountain St. and other streets in Pasadena Heights, to Mlagenovich & Gillespie, 1029½ West 36th St., Los Angeles, $50,900. Noted Nov. 17.

Bridges

PROPOSED WORK

Kan., Topeka—Shawnee Co. had plans prepared 2 bridges, one 100 ft. arch span or rainbow design, other 120 ft. arch span. A. C. Lagerwall, Topeka, engr.

Ont., Stratford—Election in January $30,000 bonds for ornamental bridge over Avon River. Address R. R. Lang, City Hall.

Que., Thurso — J. and G. Black, Ltd., soon take bids for combined bridge and dam, $100,000. J. E. Ballee, c/o Dept. Pub. Wks., Quebec, engr.

BIDS DESIRED

North Carolina — Dec. 9, by State Hy. Comn., Raleigh, bridges and culverts on State Project 155, Martin and Pitt Counties, 896 cu.yd. concrete, 75,410 lb. reinforcing, $26,000; on State Project 380, Macon and Swain Counties, 630 cu.yd. concrete, 1,509 cu.yd. rubble masonry, 76,860 lb. reinforcing, $33,000. C. M. Upham, state highway engr.

Minn., New Ulm—Dec. 2, by State Hy. Comn., St. Paul, Bridge 3660, one 171 ft. steel span and two 75 ft. truss spans on concrete abutments and piers; Bridge 3661, three 75 ft. truss spans on concrete abutments and piers over Minnesota River, near here, for Brown and Nicollet Counties, City of New Ulm and State. $60,000. C. M. Babcock, state highway engr.

S. D., Yankton—Nov. 29, by Meridian Highway Bridge Co., steel superstructure for steel and concrete double deck bridge over Missouri River, span length 1,680 ft., total length incl. approaches 5,820 ft. $400,000. Harrington, Howard & Ash, Orear-Leslie Bldg., Kansas City, Mo., engrs.

Tex., Del Rio—Dec. 6, by R. T. Hunnicutt judge Val Varde Co., 450 ft. bridge over Pecos River, three 150 x 18 ft. steel spans, concrete floor, 2 rein.-con. abutments, 2 mass piers. $100,000. G. M. Jowers, co. engr. Noted Sept. 29.

BIDS RECEIVED

Illinois—Dept. Pub. Wks. and Buildings, Div. Highways, Springfield, following bridges on Route 37, Jefferson Co.; (1) 1 concrete and 1 concrete substructure for steel, Sect. 1-B, (2) 1 superstructure for steel bridge, Sect. 1-C, (3) 3 concrete, Sect. 1-D, (4) 4 concrete and 1 substructure for steel, Combination L, from Zimmerly Bridge Co., Paris, (1) $30,756; Cleary & Hailey, Cincinnati, O., (1) $30,798; W. H. Shons, 109 Spring St., Freeport, (1) $30,886 (3) $17,206, (4) $46,900; Rochester Bridge Co., Rochester, Ind., (2) $6,901; Perkins Structural Steel Co., Flint, Mich., (2) $7,026; Clinton Bridge Wks., 101 South 2nd St., Clinton, Ia., (2) $7,075; H. R. Cawood, Mt. Vernon, (3) $16,362, (4) $46,939; B. F. Clark & Co., St. Louis, Mo., (3) $16,955; Riley & Bailey, St. Louis, Mo., (4) $48,000. Noted Nov. 3.

Missouri—State Hy. Dept., Jefferson City, opened bids Oct. 10, rein.-con. slab spans, on road from St. Joseph to Dearborn, Federal Aid Project 180, Buchanan Co., from Moritz & Oren, Effingham, Ill., $26,867; M. E. Gilliox, Monett, $29,630; Koss Constr. Co., 2818 5th St., Des Moines, Ia., $34,376. Noted Sept. 22.

CONTRACTS AWARDED

Conn., Danbury—Pub. Wks. Dept., 90 ft., 2 span, concrete and steel bridge, 32 ft., Chestnut St., to L. F. Sweeney, 26 Montgomery St., $25,000.

O., Dayton—Comrs. Montgomery Co. superstructure for 3 span truss highway bridge (Shepard Bridge), over Miami River to Brookville Bridge Co., Brookville, $54,472. Noted Oct. 20.

Mich., Grand Rapids—For concrete bridge over Grand River on Pearl St., to Koss Constr. Co., 2818-5th St., Des Moines, Ia., $186,700. Noted Oct. 13.

Mo., St. Joseph—Buchanan Co., one 100 ft. span, two 120 ft. spans, two 150 ft. spans and one 130 ft. span bridges, on Pikes Peak Highway-Mitchell Ave. Rd., and Saxton-Easton Rd., to Allied Contractors, Inc., 404 Peters Trust Bldg., Omaha, Neb., $47,555.

Dams

PROPOSED WORK

Wis., Mayking (Antigo P. O.)—See "Industrial Works."

Ore., Burns — See "Excavation and Dredging."

Que., Thurso—See "Bridges."

CONTRACTS AWARDED

N. H., Bennington — Monadnock Paper Mills, concrete storage dam, to Aberthaw Constr. Co., 27 School St., Boston, Mass. $15,000.

Railways

PROPOSED WORK

Maryland—Northern Maryland & Tidewater R.R., plans rebuilding 4 mi. railroad from point 4 mi. out of Jennings to Worth, Pa., connecting with Baltimore and Ohio R.R. incl. 3 bridges, 70 ft. long. W. E. Ambrose, Cumberland, genl. mgr.

Excavation and Dredging

PROPOSED WORK

Fla., Jupiter — Jupiter Inlet Dist., c/o Mayor, voted $100,000 bonds opening Jupiter Inlet to 12 ft. and laying jetties 200 ft. into ocean, 100,000 cu.yd. dredging.

Excavation and Dredging (Continued)

Ore., Burns—Harney Valley Irrigation Dist. voted bonds for system to irrigate 87,000 acres, near here, incl. earth fill dam, 110 ft. high, to form reservoir, 150,000 acre ft. capacity, on Silvies River, 1,000,000 cu.yd. earth fill. Reservoir to cost $1,400,000. Total cost $2,200,000. Baar & Cunningham, 4135 Paulding Bldg., Portland, engrs.

Ore., Grants Pass—See "Waterworks."

Ore., Klamath Falls—Langell Valley Irrigation Dist. plans to irrigate 20,263 acres. $526,000. C. T. Darley, Klamath Falls, engr.

Ia., Onawa—Monona Co. making plans improving 12.5 mi. Maple River, D.D. 32, 916,000 cu.yd. excav. $90,000. G. E. Oliver, Onawa, engr.

BIDS DESIRED

Minn., Duluth—Dec. 6, by W. H. Borgen, aud. St. Louis Co., D. D. 13, Kelsey Albion Dist., forty-two 36-60 in. and two hundred six 15 in. culverts, and 4 small concrete bridges, involving 1,340,670 cu.yd. ditching excav. and 162,790 yd. county road ditching. $275,000. F. M. McGillivray, Engineers' office, Court House, engr.

Minn., Mantorville—Dec. 3, Dodge Co., Ditch 5, 51,750 ft. 8-36 in. tile, 600 lin.ft. cleanout of outlet, surf inlets and 2 concrete headwalls. $52,072. R. Allison, Mankato, engr. Noted Sept. 1.

BIDS RECEIVED

N. Y., New York—M. Hulbert, comr. Docks, Pier "A" foot of Battery Pl., opened bids Nov. 16, dredging, (1) 103,000 cu.yd. at Piers 53, north side, 54, north side, 56, north and south sides and 64, south side North River, (2) 35,000 cu.yd. at Piers foot of 11th St., south side, 30th St., north and south sides, 61st St., north and south sides, East River; (3) 18,400 cu.yd. at bulkhead between 108th and 109th Sts., and Piers at foot of 108th St., south and north sides, 109th St., north and south sides, Hudson River; all above in Boro of Manhattan, (4) 15,500 cu.yd. at Piers at foot of Tiffany St., north and south sides, East River, Boro of Bronx, (5) 10,200 cu.yd. at Piers, foot of Fulton St., south side, foot of Washington St. and Fire Dept. Pier at 37th St., Boro of Brooklyn, from F. E. Jones Dredging Co., 17 Battery Pl., (1) $0.17 per cu.yd., total, $17,510, (2) $0.27, $9,450, (3) $0.35, $6,440, (4) $0.45, $6,975, (5) $0.40, $4,080; Columbia Dredging Co., 30 Church St., (1) $0.22, $22,660, (2) $0.40, $14,000, (3) $0.50, $9,200, (4) $0.90, $14,050; New Jersey Shipbuilding & Dredging Co., foot of 28th St., Bayonne, N. J., (1) $0.172, $17,713, (2) $0.19 1-7, $6,700, (3) $0.31½, $5,865, (4) $0.327, $5,068, (5) $0.29, $2,958; P. Sanford Ross, Inc., (5) $0.47, $4,794. Noted Nov. 10.

CONTRACTS AWARDED

Ia., Red Oak—Montgomery Co., D.D., 6,211,000 cu-yd. excav., to W. F. Sternberg, Piper City, Ill., $0.0939 per cu.yd. Noted Oct. 27.

Minn., Fairmont—Martin Co., Judicial Ditch 18, 13,650 ft. 10-22 in. tile, to North Star Concrete Co., Mankato, $6,050, labor to Hansen & Sorenson, Spencer, Ia., $3,572; Judicial Ditch 25, 14,400 ft. 12-30 in. tile to Ceylon Cement Tile Co., Ceylon, $16,278; Judicial Ditch 82, 64,150 ft. 6-34 in. tile, to North Star Concrete Co., Mankato, $28,850, open work to C. Colbert, Scranton, Ia., $2,341, labor to Widman Bros., Spencer, Ia., $15,935; Judicial Ditch 101, 37,868 ft. 6-26 in. tile, to J. W. Wilkin, Dundee, Ia., $24,700. Noted Nov. 3.

Streets and Roads

PROPOSED WORK

Conn., Milford—Bd. Selectmen plan to issue $150,000 bonds, new highway work. Engineer not selected.

N. J., Trenton—Bd. Freeholders Mercer Co. plans paving ¾ mi. South Broad St. from Cedar Lane to White Horse Pike, 48 ft., $100,000; ¾ mi. Greenwood Ave. from Johnston to Logan Aves., 20 ft., $50,000. H. F. Harris, Court House, engr.

N. J., Trenton—Plans widening ½ block of West State St., from Warren St. to Chancey Lane. $100,000. A. Swan, City Hall, engr.

North Carolina—State Hy. Dept., Raleigh, plans grading, bridging and surfacing 17.7 mi. road from Johnston to Hertford Co. line, State Project 168, Northampton Co., $95,000, 20.8 mi. Boones Mill to Hertford Co. line, State Project 167, Northampton Co., $100,000, 19.41 mi. Williamston to Washington Co. line, State Project 156, Martin Co., $100,000, 9.85 mi. Williamston to Beaufort Co. line, State Project 154, Martin Co., $55,000, 9.1 mi. Northampton Co. line to Aulander, State Project 146, Hertford and Bertie Counties, $54,000, 12.6 mi. Northampton Co. line to Winton, State Project 145, Hertford Co., $75,000, 10.9 mi. Leland to Columbus Cc. line, State Project 312, Brunswick Co., $55,000, 16 mi. Southport to Supply, State Project 314, Brunswick Co., $95,000; paving concrete or some asphaltic material 3.6 mi. from end Old Federal Aid Project 61 A to Leland, State Project 313, Brunswick Co., $90,000, 7.63 mi. Old Federal Aid Project 127, State Project 291, Wilson Co., $200,000, all 18 ft. C. M. Upham, state highway engr.

North Carolina—State Hy. Comn., Raleigh, rejected bids opened Oct. 27, grading, concrete or asphaltic paving, rein.-con. bridges and culverts on 15 mi. State Project 536B, Jones Co., $325,000. Work to be re-advertised. Noted Nov. 17.

N. C., Greensboro—Guilford Co. plans sand-clay surfacing 10 mi. road from Deep River to Pleasant Garden Rd., 6 mi. Martinsville-Hillsdale Rd., 11 mi. road from Summerfield to Brown Summit, 15 mi. Gibsonville-Julian Rd.; topsoiling 4 mi. road from Oak Ridge to Stokesdale. C. O. Lowe, Greensboro, co. engr.

O., Cleveland—Plans paving East 65th East 67th, East 68th, East 69th, East 70th, East 71st, East 73rd, East 82nd, East 88th, East 84th, East 87th and East 89th Sts. $200,000. R. Hoffman, City Hall, engr.

Michigan—State Hy. Dept., Lansing, soon takes bids grading and surfacing 4.515 mi. State Trunk Line Rd. 54-5, Sects. B, C and E, Newaygo Co., gravel; 7.515 mi. State Trunk Line Rd. 53-4, Sect. B, Lapeer Co. gravel or stone-gravel. F. F. Rodgers, Lansing, state highway comr.

Wisconsin—State Hy. Comn., Madison, plans following work for 1922, grading and concrete surfacing, Project 138, Clintonville-New London Rd., Trunk Highway 22, 18 ft., Waupaca Co., $48,000; grading and gravel surfacing Project 122-B, Trunk Highway 45, Pierce Co., $44,000; relocating, grading and surfacing with mine tailings, Mineral Point-Dodgeville Rd., Project 180, Trunk Highway 28, Iowa Co., $44,000; grading and surfacing with gravel or top soil Drummond-Ashland Rd., Project 187, Trunk Highway 24, Bayfield Co., $70,000; grading Armstrong Creek-Florence Rd., Project 206, Trunk Highway 14, Florence Co., $45,000, Mineral Point-Belmont Rd., Project 221, Trunk Highway 28, Lafayette Co., $45,000, Richland Center-Viroqua Rd., Project 239, Trunk Highway 11, Richland Co., $79,915; relocating, grading and shale surfacing Black River Falls-Millston Rd., Project 214, Trunk Highway 12, 16 ft., Jackson Co., $75,000, Sparta-Black River Falls Rd., Project 256, Trunk Highway 27, 16 ft., Monroe Co., $75,911; grading and graveling Gilbert-Irma Rd., Project 223, Trunk Highway 10, Lincoln Co., $85,631; grading and partly gravel surfacing Durand-Ellsworth Rd., Project 234, Trunk Highway 34, Pierce Co., $27,000; relocating, grading where necessary Reedsburg-Spring Green Rd., Project 243, Trunk Highway 28, Sauk Co., $60,000; relocating, grading and partly surfacing with gravel Hayward-Seeley Rd., Project 246, Trunk Highway 24, Sawyer Co., $60,000; grading and partly surfacing with top soil Spooner-Cameron Rd., Project 251, Trunk Highway 11, Washburn Co., $30,000; grading, culverting and surfacing with concrete Viroqua-Prairie du Chien Rd., Project 136, Trunk Highways 11 and 27, 18 ft., Vernon Co., $91,205, Alma-Mondovi Rd., Project 270, Trunk Highway 37, 16 ft., Buffalo Co., $70,902; grading and culverting Menomonie-Hudson Rd., Project 152, Dunn Co., $48,000.

Wis., Fond du Lac—Making plans and takes bids in spring, paving 30,000-35,000 sq.yd. 12th Ellis, Grant, Oak, Connel, Packer, Linden and McWilliam Sts. Howard, Merrill and Rose Aves., asphaltic concrete, rein.-con. or types X and Y sheet asphalt. R. Petters, City Hall, engr

Ia., Burlington—Plans paving Agency St. from Osborn Ave. to city limits. $50,000. H. Vollmer, city engr.

Ia., Carroll—Carroll Co. plans gravel surfacing Primary Rd. 18 from here north to Sac Co. line and from Lincoln Highway south to Audubon Co. line, $119,000. G. H. Hill, Carroll, engr.

Ia., Missouri Valley—Plans 85,000 yd. pavement. J. F. Clinkenbeard, clk. C. L. Huff, Logan, engr. Noted Nov. 3.

Minn., Crookston—Polk Co. plans grading and graveling in 1922. $400,000. H. J. Welke, aud.

Mont., White Sulphur Springs—Meagher Co. plans improving roads. $200,000 bonds voted. G. W. Harden, aud. Noted June 7.

Mo., St. Joseph—Buchanan Co. having preliminary surveys made resurfacing 14 mi. Dekalb Rd., 16 ft., asphaltic concrete. $100,000. J. D. Mohler, Court House, engr.

Mo., St. Joseph—Rejected bids grading and paving Miller and Ashland Aves., concrete. $31,000. W. K. Seitz, City Hall, engr. Noted Oct. 13.

Que., Hull—Soon takes bids for new pavements and sidewalks, sewers and mains. $540,000. T. Lanctot, city engr.

Ont., Barrie—Making surveys for 2 mi. concrete, asphalt or bithulithic pavement. $100,000. James, Proctor & Redfern, 36 Toronto St., Toronto, engrs.

Ont., Hamilton—Making surveys paving Wellington St. from Barton St. to Grand Trunk Ry., $17,000. King St. from McKittrick Bridge to Toronto, Hamilton and Buffalo Bridge, $23,000, asphalt and brick; Cambridge Ave. from Kenilworth to Frederick Sts., $16,000. Victoria Ave., $44,000, asphalt. E. R. Gray, city engr.

Ont., Huntsville—Making surveys paving 2 mi. Main St., tarvia macadam. $50,000. James, Proctor & Redfern, 36 Toronto St., Toronto, engrs.

Ont., Ottawa—Bd. Control soon takes bids soon paving Garland St. from Armstrong to Wellington Sts., $4,500, Armstrong St. from Garland St. to Bayview Rd., $7,726, Armstrong St. from Parkdale to Holland Aves., $13,200, Holland Ave. from Wellington to Armstrong Sts., $9,165, Holland Ave. from Tyndall to Carling Aves., $48,518, asphalt; grading Carling Ave. from Parkdale Ave. to Railway St., $15,875. A. F. Macallum, city engr.

Ont., Ottawa—Bd. Control soon takes bids repaving Nickolas St. from Rideau St. to Laurier Ave. E., asphalt and wood block. $35,000. A. F. Macallum, city engr.

Ont., Toronto—Dept. Highways plans 20 mi. concrete roadway on Yonge St. from north city limits to Bond Lake. $900,000. G. Hogarth, Parliament Bldgs., ch. engr.

Ont., Toronto—Plans made and will proceed with following pavements next year, Yonge St. from Farnham Ave. to Heath St., $49,320, Yonge St. from Farnham Ave. to north city limits, $614,080, asphalt; paving along tracks on Yonge St., $25,964, granite block; Yonge St., $54,156 asphaltic concrete; grading Lake Shore Rd., $47,525. R. C. Harris, city engr.

BIDS DESIRED

N. Y., Brooklyn—Dec. 1, by E. Riegelmann, boro pres., Boro Hall, repaving Nevins St. from State St. to Atlantic Ave., permanent wood block on 6 in. concrete, Ridge Blvd. from Ovington Ave. to 79th St. permanent asphalt on 6 in. concrete, Tillary St. from Washington to Lawrence Sts., grade 1 granite block on 6 in. concrete.

N. Y., New York—Nov. 28, by H. H. Curran, pres. Manhattan Boro., curbing and recurbing Fairview Ave., etc.; grading West 187th St., etc.; repaving East 52nd St. also 76th St. from Ave. A to Lexington Ave., etc., sheet asphalt.

N. Y., S. I., St. George—Nov. 30, by C. D. Van Name, pres. Richmond Boro, Boro Hall, repaving roadway of Wright St. from Water to Van Duzer Sts., napped granite block.

West Virginia—Dec. 16, by State Rd. Comn., Charleston, grading 5 mi. Project 3002, Monongalia Co., 3 mi. Project 3076, Calhoun Co., 4.6 mi. Project 3036, Boone Co., 3.1 mi. Project 3041, Greenbrier Co., 4 mi. Project 3050, Pocahontas Co., 4.4 mi. Project 3015, Grant Co.; grading and concrete paving 2 mi. Project 3075, Jackson Co., 1.8 mi. Project 3064, Cabell Co., 3.3 mi. Project 3027, Morgan Co.; paving and grading 2 mi. Project 3086, waterbound macadam surface treated, Marshall Co.; paving 2.7 mi. Project 3097, concrete, Wayne Co. E. B. Carskadon, secy.; adv. this issue.

North Carolina—Dec. 9, by State Hy. Comn., Raleigh, clearing, grading, bridging and surfacing, 7.04 mi. State Project 856, Mitchell Co., 14 acres clearing, 73,200 cu. yd. excav., 15,100 cu.yd. rock excav., 3,398 ft. 18-30 in. corrugated metal pipe, 69,880 sq.yd. penetration macadam, 490 cu.yd. concrete, 1,150 cu.yd. rubble masonry, 48,900 lb. reinforcing, etc., $175,000, 17.84 mi. State Project 980, Macon and Swain Counties, 54 acres clearing, 209,800 cu.yd. excav., 59,000 cu.yd. rock excav., 9,598 ft. 18-24 in. corrugated metal pipe, 6,325 cu. yd. rubble masonry, 113,400 sq.yd. waterbound macadam, $240,000, 5.24 mi. State Project 811, Burke Co., 5 acres clearing, 54,600 cu.yd. excav., 1,694 ft. 18-24 in. corrugated metal pipe, 55,050 sq.yd. concrete or asphaltic paving, 142 cu.yd. concrete, 10,540 lb. reinforcing, $195,000, 5.01 mi. State Project 920, Clay Co., 6 acres clearing, 38,800 cu.yd. excav., 1,482 ft. 18-30 in. corrugated metal pipe, 11,800 cu.yd. gravel surfacing, 373 cu.yd. concrete, 734 cu.yd. rubble masonry, 15,030 lb. reinforcing, $40,000; grading and paving 7.63 mi. State

Streets and Roads (Continued)

Project 291, on Federal Aid Project 127, Wilson Co., 8,000 cu.yd. grading and 71,330 sq.yd. concrete or asphaltic paving, $217,990, 4.51 mi. State Project 695, part of Old Federal Aid Project 39, Union Co., 4,700 cu.yd. grading, 42,320 sq.yd. concrete or asphaltic paving, $129,000; clearing, grading and topsoiling 19.3 mi. State Project 155, Martin and Pitt Counties, 24 acres clearing, 27,400 cu.yd. excav., 85,100 cu.yd. borrow, 2,168 ft. 24-30 in. concrete or c.i. pipe, 246 cu.yd. concrete and 45,350 cu.yd. topsoiling, $67,700; clearing, grading, bridging and topsoiling 5.2 mi. State Project 833, Henderson Co., 5 acres clearing, 45,400 cu.yd. excav. and borrow, 6,100 cu. yd. rock excav., 1,656 ft. 15-30 in. corrugated metal pipe, 2,150 cu.yd. topsoiling, 297 cu.yd. concrete, 203 cu.yd. rubble masonry, 22,450 lb. reinforcing, $37,300; clearing, grading and bridging 9.89 mi. State Project 113A, Chowan Co., 10 acres clearing, 35,300 cu.yd. excav., 772 cu.yd. concrete, 54,260 lb. reinforcing, $31,100, 10.4 mi. State Project 114, Chowan Co., 8 acres clearing, 47,000 cu.yd. excav., 714 cu.yd. concrete, 64,150 lb. reinforcing, $43,500; grading, topsoiling and paving 5.97 mi. State Project 782, Wilkes Co., 21,300 cu.yd. excav., 900 cu.yd. rock excav., 1,046 ft. 12-18 in. corrugated metal pipe, 6,520 cu.yd. topsoiling, 31,940 sq.yd. concrete or asphaltic paving and 255 000 sta. yd. overhaul, $113,700. C. M. Upham, state highway engr.

Fla., Dunedin—Dec. 13, paving and laying sewers in various streets. $115,000. G. S. Iredell, Campbell Bldg, Tampa, engr.

Fla., Melbourne—Dec. 1, 34,134 sq.yd. bituminous penetration wearing surface on waterbound macadam, $80,000; 5,420 ft. concrete curb and gutter, 22,066 concrete curb and several culverts, $25,000.

Minnesota—Dec. 2, by State Hy Comn., St. Paul, grading 157,000 cu.yd. State Project 28-23 between Westport and Sauk Centre, Federal Aid Project 246, Pope and Stearns Counties, $35,000; 48,000 cu.yd. State Project 7-25 between Mankato and Janesville, Federal Aid Project 247, Blue Earth Co., $14,000; $168,917 cu.yd. State Project 35-21 between Aitkin and Bennettsville, Federal Aid Project 245, Aitkin Co., $38,000; 118,000 cu.yd. State Project 23-22 between Foley and Milaca, Federal Aid Project 243, Benton and Mille Lacs Counties, $27,000; 237,000 cu.yd. State Project 65-21 and 8-26 between Bagley and Clear Brook, Federal Aid Project 248, Clearwater Co., $50,000; 145,000 cu.yd. State Project 9-25 between Preston and Lanesboro, Federal Aid Project 244, Fillmore Co., $32,000. C. M. Babcock, state highway engr.

Minnesota—Dec. 9, by State Hy. Comn., St. Paul, concrete paving 241,000 sq.yd. State Project 27-21, between Morrison Co. line and Sherburne Co. line, Benton Co. $770,000. C. M. Babcock, state highway engr.

Minn., Little Falls—Dec. 21, by B. Y. McNairy, Morrison Co., aud. concrete paving 10.5 mi. Minnesota Trunk Highway 27, from here to Royalton. $325,000. State Highway Dept., St. Paul, engrs.

Kan., Iola—Dec. 23, by Allen Co. grading and paving 2.034 mi. Federal Aid Project 101, Sect. A, 18 ft. A. R. Stroup, Iola, engr.

Neb., Buffalo—Dec. 2, by Secretary of Dept. Pub. Wks., gravel surfacing 16.37 mi. various streets, 191,223 sq.yd. gravel surface, 700 cu.yd. excav., 592 ft. 12-36 in. concrete culvert pipe, 42 ft. 18-24 in. corrugated culvert pipe, etc. G. E. Johnson, Lincoln, state engr.

N. D., Devils Lake—Nov. 29 by Ramsey Co., gravel surfacing 12.5 mi. Federal Aid Project 95, through Penn and Grand Harbor. $28,000. County to furnish gravel in pits. J. A. Kramer, aud.

Tex., Del Rio—Dec. 6, by R. F. Hunnicutt, judge Val Verde Co., grading and surfacing 4.3 mi. State Highway 12, 12, 151 cu.yd. borrow, 2,598 cu.yd. roadway and 24,890 cu.yd. solid rock excav., 209.90 cu. yd. concrete, 8,719 lb. reinforcing, 3,698 cu. yd. crushed rock and 6,249 cu.yd. gravel surfacing. $95,000. G. M. Jowers, co. engr. Noted Sept. 29.

Tex., Denison—Nov. 29, by J. F. Nichols, mayor, grading and paving Bois d'Arc, Bourland, Cornelia, Division, Gordon and King Sts., 31,700 lin.ft. combined concrete curbing and guttering, 10,075 cu.yd. earth excav., 140 cu.yd. concrete, 34,445 sq.yd. asphalt, concrete or bituminous concrete, 8,525 ft. 10-15 in. vitr. sewer pipe, etc. $100,000.

Tex., Eastland—Dec. 1, by C. R. Starnes, judge Eastland Co., grading and surfacing 8.88 mi. State Highway 1, between here and Granger, 10,230 cu.yd. borrow, 15,652 cu.yd. roadway, 2,227 cu.yd. loose and 2,675 cu.yd. solid rock excav., 29,524 cu.yd. crush rock base, 380.1 cu.yd. concrete, 93,071 sq.yd. bituminous concrete, 26,914 lb. reinforcing, etc. $402,116. W. R. Eccles, co. engr. Noted Oct. 13.

Tex., Greenville—Dec. 5, by O. P. McWhirter, judge Hunt Co., grading, surfacing and bridging 9.66 mi. State Highway 1, Federal Aid Project 188. $286,233. A. D. Duck, co. engr. Noted Nov. 10.

Utah, Salt Lake City—Nov. 29, by City Recorder, curbing and guttering Dist. 24, from H to N Sts. and from 3rd to 11th Aves. $186,000. S. Q. Cannon, city engr. Noted Oct. 27.

Washington—Dec. 5, State Hy. Comn., Olympia, grading and graveling 11 mi. Olympic Highway, from Beaver to Forks, Clallam Co.; 4 mi. North Bank Highway, Cooks Grade, Skamania Co. J. Allen, state highway engr.

California—Dec. 5, by State Hy. Comn., Sacramento, paving 3.7 mi. highway between Selma and Kingsburg, Fresno Co., cement concrete asphalt concrete surface; asphalt concrete paving 7 mi. highway, one section near Castaic School, other 11 mi. south of Liebre Mountain, Los Angeles Co., 7.9 mi. highway between Morgan Hill and Gilroy, Santa Clara Co. A. B. Fletcher, state highway engr.

Cal., Calexico—Dec. 6, by City Clerk, concrete curbs and cement sidewalks on various streets in residential district, 98,833 lin.ft. concrete curbing, 32,833 sq.ft. concrete cross walks, 474,270 sq.ft. cement sidewalk, 30,600 cu.yd. grading. P. M. Entemann, city engr.

Cal., Los Angeles—Nov. 28, by Bd. Pub. Wks., paving, curbing and guttering Eaglerock Ave. and other streets, 6 in. concrete.

Cal., Santa Barbara—Dec. 5, by Bd. Supervs. Santa Barbara Co., paving 28 mi. Surf-Lompoc Rd., 1½ in. asphaltic concrete surface on 3½ in. asphaltic concrete. $400,000. O. H. O'Neill, co. surv.

Cal., Ventura—Dec. 7, by Bd. Supervisors asphalt concrete paving 48,000 sq. ft. Foothill and Day Roads.

BIDS RECEIVED

N. Y., Brooklyn—E. Riegelmann, boro pres., Boro Hall, opened bids Nov. 17, grading, curbing and laying sidewalks on (1) Clarkson Ave. also paving roadway Clarkson Ave. from Troy Ave. to point about 75 ft. west of East 49th St., etc., curbing, (2) Elmore Pl., paving (3) roadway of Glenmore Ave., (4) roadway at intersection of New York Ave. and Montgomery St., (5) roadway of Senator St., (6) roadway of Williams Ave., (7) roadway space between outer rails and curb on 8th Ave., (8) roadway of 74th St., (9) roadway of 80th St., from Sicilian Asphalt Paving Co., 41 Park Row, New York, (1) $19,794, (2) $10,782, (3) $2,663, (4) $1,395, (6) $9,445 (9) $8,129; Brooklyn Alcatraz Asphalt Co., 407 Hamilton Ave., (1) $19,974, (2) $9,985, (7) $5,408, (8) $8,030, (9) $7,294; Borough Asphalt Co., 1301 Metropolitan Ave., (1) $19,993, (2) $9,676, (3) $2,383, (4) $1,174, (5) $6,982, (6) $8,095, (7) $5,117, (8) $7,550, (9) $6,892; Cranford Co., 52-9th St., (5) $8,225, (7) $5,584, (8) $8,837; Uvalde Asphalt Paving Co., 1 B'way, New York, (5) $8,329; Cleveland Trinidad Paving Co., Flushing, (3) $2,426, (4) $1,222, (6) $8,826. Noted Nov. 10.

N. Y., New York—H. H. Curran, pres. Manhattan Boro, Municipal Bldg. opened bids Nov. 15, repaving (1) Bleecker St., (2) East 52nd St., (3) 69th St., (4) East 76th St., (5) 65th St. from Interboro Asphalt Co., 233 B'way, (1) $3,646, (2) $24,691, (3) $12,001, (4) $6,744, (5) $11,374; Brusstar Constr. Co., Inc., Harlem River and 150th St., (1) $3,831, (2) $24,796, (3) $11,906, (4) $6,596, (5) $11,365; C. D. Beckwith, Inc., 301 West 108th St., (1) $4,197, (2) $28,071, (3) $13,538, (4) $7,165; J. E. Gaffney, 438 East 91st St., (2) $24,427, (4) $6,109, (5) $11,329; Asphalt Constr. Co., 2197 Madison Ave., (2) $24,706, (3) $13,357, (4) $6,228. Noted Nov. 10.

Fla., Titusville—Brevard Co. clearing and bituminous macadam surfacing 15 mi. road from Melbourne to Osceola Co. line, from E. P. Maule, Ojus, $119,583. Noted Oct. 27.

Ohio—Dept. Highways and Pub. Wks., Columbus, opened bids Nov. 19, grading, bridges, culverts and paving roads in following counties: Sect. "A" Youngstown-East Liverpool Rd., 1.58 mi. from Cavanaugh-De Niro Co., Youngstown, brick, $62,297, bituminous macadam, $52,806; Tagenhorst & McLaughlin Co., East Liverpool, brick, $63,802, bituminous macadam, $54,610; Allison-Harris Co., East Liverpool, brick, $65,834; R. H. Shafer Co., Chamber of Commerce Bldg., Columbus, bituminous macadam, $49,896. Henry Co., Sect. "A" Toledo-Napoleon Rd., 3.35 mi., waterbound macadam, R. Stone, Lima, $39,218; F. F. Walton Co., Upper Sandusky, $39,771; J. A. Westrick & Son, Napoleon, $37,835. Columbiana Co., Sect. "C" Lisbon-Salineville Rd., 0.971 mi., grading and paving, from L. H. Young, West Austontown, brick, $35,394, bituminous macadam, $28,081; Tagenhorst & McLaughlin, East Liverpool, brick, $35,701; Cavanaugh-De Niro Co., Youngstown, brick, $35,671; R. H. Shafer Co., Chamber of Commerce Bldg., Columbus, bituminous macadam, $25,994; E. E. Miller & Son, Canfield, bituminous macadam, $29,046. Williams Co., Sect. "C-1" Bryan-Napoleon Rd., grading bridges and culverts, J. A. Westrick, Napoleon, $28,818; F. F. Walton Co., Upper Sandusky, $31,054; W. G. Reiund, Holgate, $32,048. Adams Co., Sect. "D" West Union-Sinking Springs Rd. bridge, Charles J. Fox, Brookville, O., $5,326; J. M. Day Constr. Co., Peebles, $5,560; Laub & Smith, New Richmond, $5,655. Licking Co., Sect. "G" Newark-Mt. Vernon Rd., bridge, Ruhela, Mackey & Harkoman, Chardon, $7,657; Newark Paving & Constr. Co., Newark, $8,631; Stout & Stout, Stoutsville, $8,659. Sect. "G" Newark-Mt. Vernon Rd., bridge, Newark Paving & Constr. Co., Newark, $21,813; Stout & Stout, Stoutsville, $21,419; Swingle & Robinson, Columbus, $22,160. Licking Co., Sect. "G" Newark-Mt. Vernon Rd., repairing bridge, Capitol Constr. Co., Columbus, $3,846; Ruhela, Mackey & Harkoman Co., Chardon, $3,688; F. F. Walton Co., Upper Sandusky, $3,739. Noted Nov. 3.

Illinois—Dept. Pub. Wks. and Buildings, Div. Highways, Springfield, paving (1) 4.55 mi. Route 2, Sect. 24, Fayette Co. (2) 4.82 mi. Route 2, Sect. 25, Fayette-Marion Co. (3) 4.39 mi. Route 2, Sect. 26, Marion Co. (4) 13.77 mi. Route 2, Combination A, Fayette-Marion Co. (5) 4.52 mi. Route 2, Sect. 27, Marion Co. (6) 4.34 mi. Route 2, Sect. 28, Marion Co. (7) 3.47 mi. Route 2, Sect. 29, Marion Co. (8) 12.32 mi. Route 2, Combination B, Marion Co. (9) 26.09 mi. Route 2, Combination C, Fayette-Marion Co. (10) 3.98 mi. Route 2, Sect. 30, Marion-Washington Co. (11) 4.53 mi. Route 2, Sect. 31, Washington Co. (12) 8.52 mi. Route 2 Combination D, Marion-Washington Co. (13) 3.29 mi. Route 2, Sect. 32, Washington Co. (14) 2.76 mi. Route 2, Sect. 33, Washington Co. (15) 6.05 mi. Route 2, Combination E, Washington Co. (16) 14.57 mi. Route 2, Combination F, Marion-Washington Co. (17) 40.66 mi. Route 2, Combination G, Fayette-Marion-Washington Co. (18) 6.86 mi. Route 3, Sect. 68, Monroe Co. (19) 4.64 mi. Route 5, Sect. 19, Stephenson Co. (20) 2.53 mi. Route 5, Sect. 20, Stephenson Co. (21) 4.64 mi. Route 5, Sect. 21, Stephenson Co. (22) 7.17 mi. Route 5, Combination H, Stephenson Co. (23) 5.45 mi. Route 5, Sect. 22, Stephenson Co. (24) 5 mi. Route 5, Sect. 23, Stephenson Co. (25) 22.27 mi. Route 5, Combination J, Stephenson Co. (26) 5.96 mi. Route 7, Sect. 3, Henry Co. (27) 5.2 mi. Route 7, Sect. 6, Henry Co. (28) 1.35 mi. Route 7, Sect. 8-C, Bureau Co. (29) 4.45 mi. Route 7, Sect. 9, Bureau Co. (30) 5.57 mi. Route 7, Sect. 10, Bureau Co. (31) 1.36 mi. Route 7, Sect. 11, Bureau Co. (32) 12.73 mi. Route 7, Combination K, Bureau Co. (33) 6.85 mi. Route 31, Sect. 1, Adams Co. (34) 7.54 mi. Route 31, Sect. 2, Adams Co. (35) 0.3 mi. Federal Aid Project 8, Sect. V-3, Macoupin Co.; grading (36) 5.06 mi. Route 3, Sect. 38-A, McDonough Co. (37) 0.24 mi. Route 4, Sect. 4-A, Will Co. (38) 5.57 mi. Route 37, Sect. 1-A, Jefferson Co., from

Mauts & Oren, Effingham. (1) $94,744, (2) $97,373, (3) $88,232, (4) $278,900, (5) $89,155, (13) $68,236, (14) $59,344, (15) $127,000. J. W. Etchison, Casey, (1) $95,987, (2) $98,100, (3) $89,026, (5) $94,965, (6) $91,141, (7) $73,456, (8) $256,946, (9) $534,389. Cameron, Joyce & Co., Keokuk, Ia., (1) $100,723, (3) $96,070, (4) $299,000, (5) $99,427, (8) $276,719, (34) $171,680; (36) $17,768, (38) $46,666. M. Hayes & Sons, Janesville, Wis., (2) $105,997, (4) $300,000. W. C. Johnson, 510 South High St., Belleville, (6) $98,173, (7) $81,245, (8) $270,454, (9) $575,000, (38) $48,257. R. L. Williams, Wyatt, Mo., (6) $97,469, (7) $78,263, (9) $561,827 (10) $101,189. (11) $117,974, (13) $79,638, (14) $66,828. (17) $896,698. E. Berns & Co., Chicago, (10) $99,107, (11) $113,698, (13) $77,902, (14) $65,615, (16) $323,929. C. E. Carson & Co., 155 North Clark St., Chicago, (10) $110,807, (16) $340,000. Alzina Constr. Co., Springfield, (11) $114,216, (12) $224,756, (15) $145,678. Powell & Gaven, Collinsville, (18) $144,862. Stocker Gravel & Constr. Co., Highland, (18) $150,004. Edwardsville Constr. Co., Edwardsville, (18) $152,818. F. A. Nelson, Racine, Wis., (19) $107,453, (20) $61,054, (21) $110,539, (23) $130,325, (24) $125,701, (25) $520,000. Gund Graham Co., Davenport, Ia., (19) $117,768. States Improvement Co., 10 South La Salle St., Chicago, (19) $118,704, (21) $115,571, (22) $163,250. J. J.

Streets and Roads (Continued)

Dunnegan Constr. Co., Shenandoah, Ia., (20) $67,958, (21) $113,411, (22) $175,000, (23) $139,850, (24) $136,102, (26) $154,173, (28) $31,422, (29) $111,157, (30) $129,065, (31) $35,350, (32) $298,000. Federal Paving Co., 133 West Washington St., Chicago, (20) $71,045, (23) $138,948, (24) $142,677, (25) $479,999. L. O. Kuhn, Bloomington, (26) $149,639, (27) $116,240. Trompeter & Son, Peru, (27) $105,767. R. F. Conway Co., 133 West Washington St., Chicago, (27) $124,950. Weber Co., Ionia, Mich., (28) $29,720, (29) $101,666, (30) $117,670, (31) $30,316. Jaicks Bros., Chicago, (28) $30,032, (29) $103,260, (30) $124,344, (31) $33,497, (32) $288,000. Jensen & Schaefer, Pekin, (32) $307,983. F. Reis, Quincy, (33) $128,977. Eiff & Simons, Quincy, (33) $148,425. W. F. Smith & Co., Rensselaer, Ind., (35) $11,106. R. Colbine & Bro., Gillespie, Ind., (35) $13,460. J. A. Awe, Lincoln, (36) $19,810. A. O. McCoy, Clayton, (36) $21,435. Powers-Thompson & Co., Joliet, (37) $4,513. Jobst & Gates, Peoria, (38) $42,694. Noted Nov. 3.

Missouri — State Hy. Dept., Jefferson City, opened bids Oct. 10, 6.639 mi. road from St. Joseph to Dearborn, Federal Aid Project 180, Buchanan Co., (1) 47,254 cu.yd earth excav., (2) 69,689 sq.yd. concrete paving, crushed rock aggregate, (3) 69,689 sq.yd concrete paving joplin chats aggregate, etc., from Moritz & Oren, Effingham, Ill., (1) $0.33, (2) $2.79, (3) $2.69, total with (2) $218,519, with (3) $211,550; M. E. Gillioz, Monett, (1) $0.40, (2) $2.85, (3) $2.70, with (2) $228,327, (3) $217,874; Koss Constr. Co., 2818 5th St., Des Moines, Ia., (1) $0.40, (2) $2.99, (3) $2.97; with (2) $238,291, (3) $236,897.

Tex., Denton—Denton Co. surfacing 10.03 mi. State Highway 40, Denton-Dallas Rd., from F. P. McElwrath, Corsicana, $45,199; J. E. Ward, 510 Slaughter Bldg., Dallas, $47,737; Tibbetts Constr. Co., Box 179, Mineral Wells, $47,746. Noted Oct. 27.

Tex., San Marcos—Hays Co. grading and surfacing 13.92 mi. State Highway 29 A, from Rice & Winder, 1011 West 22nd St., Austin, $57,059; Holt & Ruby, Brida, $59,691; Bates & Scott, Bellaire, $59,335. Noted Nov. 3.

California—State Hy. Comn., Sacramento, paving 8.35 mi. highway between Batavia and northerly boundary, Solano Co., 10,000 ton asphalt concrete, from Clark & Henery Constr. Co., 38 South Sutter St., Stockton, $44,200; A. Teichert & Son, Ochsner Bldg., Sacramento, $48,800; Warren Constr. Co., Journal Bldg., Portland, Ore., $49,000. Noted Nov. 3.

CONTRACTS AWARDED

N. Y., Long Island City—M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., grading Van Pelt St., to Welsh Bros. Contg. Co., 32 Queens Blvd., Astoria, $4,475; repaving Lawrence St., to W. P. McDonald Constr. Co., 17 West 42nd St., New York, $32,774; Rockaway Blvd., etc., to Borough Asphalt Co., 1301 Metropolitan Ave., Brooklyn, $5,960. Noted Nov. 17.

N. J., Mays Landing — Bd. Freeholders Atlantic Co., Guarantee Trust Bldg., Atlantic City, paving Sugar Creek Sect. of Pleasantville-Mays Landing Rd., Hamilton Twp., here, to Sutton & Corson Co., 9th and Simpson Sts., Ocean City, $98,333. Noted Oct. 27.

Pennsylvania — State Highway Dept., Harrisburg, 21,098 ft. Butler Co., 24,445 cu.yd. excav., 32,793 sq.yd. concrete, 4,758 sq.yd. vitr. brick, to Connell, Laub & Bracht, 808 North Main St., Dayton, O., $161,358; 20,438 ft. Butler Co., 19,133 cu. yd. excav., 7,507 sq.yd. vitr. brick, 33,500 sq.yd. concrete, to C. E. Walter, Butler, $195,926. Noted Oct. 6.

West Virginia—State Rd. Comn., Charleston, grading and paving 6.45 mi. Culloden-St. Albans Rd., Putnam Co., 36,000 cu.yd. excav., 60,500 sq.yd. bituminous macadam, 1,150 sq.yd. concrete, 35 acres clearing, 5,000 cu.yd. overhaul, 19,000 lb. reinforcing, 2,110 lin. ft. 15-24 in. vitr. clay pipe, 136,500 gal. bituminous material for penetration macadam, etc., to Hunt-Forbes Constr. Co., Ashland, Ky., $201,206; 6.8 mi. Midland Trail, Fayette Co., 71,195 cu.yd. excav., 63,812 sq.yd. bituminous macadam, 10,635 cu.yd. broken stone base, 9,410 lb. reinforcing, 1,560 lin. ft. 12-24 in. vitr. clay pipe, 143,577 gal. bituminous material for penetration macadam, to A. Keathley, Charleston, $204,067; 2.6 mi. Midland Trail, Kanawha Co., 41,700 cu.yd. excav., 26,400 sq.yd. bituminous macadam surface, 14,750 lb. steel, 530 lin. ft. 15-18 ft. vitr. clay pipe, 59,400 gal. bituminous material for penetration macadam, 5,114 cu.yd. broken stone, etc., to C. S. Waugh, Williamson, $100,382; 3.5 mi. Parkersburg-Williamstown Rd., Wood Co., 1,000 cu.yd. overhaul, 5,102 cu.yd. borrow excav., 15,334 cu.yd. excav., 6,250 cu.yd. one course concrete paving, 17,580 lb. reinforcing, etc., and 2 mi. National Pike, Ohio Co., 8,167 cu.yd. excav., 4,460 cu.yd. 1 course concrete, 822 cu.yd. broken stone base, 11,162 lb. reinforcing, 125,190 lb. metal reinforcing, to Kennedy Constr. Co., Parkersburg, $94,937 and $73,640 respectively; grading 2 mi. Glenville-Weston Pike, Gilmer Co., 10,000 lin. ft. clearing 31,200 cu.yd. excav., etc., to J. M. Randich & Co., Huntington, $26,777; 10.35 mi. Northwestern Turnpike Mineral Co., 15 acres clearing, 62,000 cu.yd. excav., 9,000 lb. reinforcing, 1400 cu.yd. gravel surfacing, 2,710 lin. ft. 15-24 in. rein.-con. pipe, 830 cu.yd. concrete, etc., to Mononghala Constr. Co., Fairmont, $70,628, 1.75 mi. Fairmont-Morgantown Rd., Marion Co., 8,556 lin. ft. clearing, 12,101 cu.yd. excav., to A. L. Nickolich, Fairmont, $14,057; 4 mi. Fairmont-Morgantown Rd., Monongalia Co., 20,000 lin. ft. clearing, 65,000 cu.yd. excav., 1,125 cu.yd. concrete, 4,00 cu.yd overhaul, 1,52 lin. ft. 18-36 in. rein.-con. pipe, etc., to Ferguson Bros. & Co., Shinnston, $72,398. Noted Oct. 27.

North Carolina—State Hy. Comn., Raleigh, grading and paving with topeka 5.12 mi. State Project 427, Granville Co., to R. G. Lassiter & Co., Citizens Bank Bldg., Raleigh, $145,116; rein.-con. paving and grading 2.3 mi. State Project 410, Durham and Orange Counties, to C. D. Rigsbee, Durham, $76,293; topeka paving, grading and rein.-con. structures on 6.64 mi. State Project 482, Wake Co., to R. M. Hudson Co., Salisbury, $174,240; clearing, grading, topeka paving on 7.4 mi State Project 481 to Union Paving Co., 30t.i and Locust Sts., Phila., $220,269, rein.-con. culverts on same to P. R. Ashby, Tucker Bldg., Raleigh, $24,708. Noted Nov. 17.

North Carolina—State Hy. Comn., Raleigh, grading, rein.-con. bridges and culverts, and paving 10 mi. State Project 616, Wayne Co., topeka on 5 in concrete, to Union Paving Co., 30th and Locust Sts., Phila., $283,000. Noted Nov. 17.

N. C., Charlotte—Paving 14 mi. streets, to Blythe Bros., Charlotte, $525,000. Noted Nov. 3.

Tenn., Chattanooga — Paving Williams St., asphalt, concrete curbs and gutters, to West Constr. Co., Vol. Bldg., $40,000.

O., Akron—Director Pub. Serv., grading and laying sidewalks 1 mi. West Exchange St., to M. Kalain, Wilson St., $19,000. Noted Nov. 10.

O., Cleveland Heights (Warrensville P. O.)—Grading and laying concrete sidewalks on Silsby Rd., to Strohman & Kidder, 437 The Arcade, $24,657; paving Elbon Rd., asphalt, to Spence Bros., 2078 Randon Rd., $26,850. Noted Nov. 17.

O., Lakewood (Cleveland P. O.)—Bd. Educ., Warren Rd., grading, seeding, sodding, tiling lawn areas, retaining wall, stone steps and brick driveways, at Horace Mann and Emerson Jr. High Schools, to R. E. Carey Co., 1500 West 112th St., Cleveland, $39,000. Noted Nov. 10.

Michigan—State Hy. Dept., Lansing, grading and surfacing 19.28 mi. Federal Aid Project 53, Arenac and Ogemaw Counties, to W. J. Meagher, Fay Blk., Bay City, 63,648 cu.yd. excav., $0.55, 55,207.3 cu.yd. 1:2:4 concrete, $23, 221.7 cu.yd. 1:3:6 concrete, $20, 180,977 sq.yd. gravel, $0.63, etc., total, $164,747; grading 11.426 mi. State Trunk Line Rd. 35-5, Sect. C, Marquette Co., to G. P. Schail, Muskegon, 67.81 acres clearing, $75, 152,175 cu.yd. excav., $0.53, 265 cu.yd. 1:2:4 concrete, $25, 526.8 cu.yd. 1:3:6 concrete, $24, etc., total, $175,387.

Mich., Cassopolis—State Hy. Dept., at office Bd. Rd. Comrs. Cass Co., grading 6.398 mi. Federal Aid Project 49, Sect. A, Cass and St. Joseph Counties, to G. P. Schail, Muskegon, $34,304. Noted Nov. 3.

Kan., Cawker City—Grading and paving 15,029 sq.yd. Wisconsin and Pennsylvania Aves., asphaltic concrete, to J. W. Watts Constr. Co., Concordia, $2.26 per sq.yd.

Tex., Bay City—Matagorda Co., ditching and surfacing 7.23 mi. State Highway 12-A, to J. D. Burress, 802 Oxford St., Houston, $52,590. Noted Nov. 17.

Okla., Okmulgee—State Hy. Dept., Oklahoma City, concrete paving 11.12 mi. Sects. A and B, Federal Aid Project 53, Okmulgee Co., to Allen & Harrison, 375 Empire Bldg., Oklahoma City, $372,285. Noted Nov. 3.

Idaho, Twin Falls—Twin Falls Highway Dist. grading and gravel surfacing 5.75 mi. roads, to C. H. Mull, Twin Falls, $27,404; building structures and steel bridge, to Perham & Harris, St. Anthony, $6,649 and $5,815 respectively.

Industrial Works

PROPOSED WORK

Mass., Lowell—H. Pitts, Hurd and Warren Sts., plans 2 story, 80 x 150 ft., brick and rein.-con. garage, Middlesex St. $125,000. Ashton & Atler, 477 Essex St., Lawrence, archts.

Mass., Northampton—Bd. Trustees Smith College, soon lets contract 2 story, 45 x 120 ft., brick and rein.-con. laundry and garage, plain foundation, on Campus. Densmore & LeClear, 88 Broad St., Boston, archts. and engrs.

N. Y., Buffalo—Natl. Lamp Co., Nela Park, East Cleveland, O., having plans prepared by G. H. Johnson, archt., Nela Park, East Cleveland, O., 1 story, 40 x 80 ft., brick and steel boiler house and gas plant, plain foundation, here. $75,000.

N. Y., New York—See "Buildings."

N. Y., Rochester—Pennsylvania Glass Sand Co. (owner and archt.), 493 West Ave., preparing plans 1 story, 45 x 105 ft. grinding mill, brick. $50,000.

N. J., Camden—J. B. Moery, 284 North 34th St., soon takes bids 1 story, 40 x 100 ft. garage and repair shop, 41st and Maple Sts. $40,000. Lackey & Hettle, 509 Federal St., archts.

N. J., El Mora (Elizabeth P. O.)—Amer. Type Fdry. Co., Communipaw Ave., Jersey City, plans foundry, here. W. Kelly, Westfield, official of company.

N. J., Linden—Warner Quinlan Co., 79 Wall St., New York, having sketches made by Gifford, Hintze & Baker Eng. Corp., archts. and engrs., c/o L. B. Walters, 227 Fulton St., New York, oil refinery and asphalt plant, here. $2,000,000.

Pa., Foxburg—H. D. Walbridge & Co., 14 Wall St., New York, having surveys made hydro-electric power plant on Clarion River, here. Only section to be constructed at this time will be concrete dam, 1,200 ft. long, 250 ft. high, 250 ft. thick at base, 2[illegible] ft. thick at top, also building to house water turbines and equipment. $4,000,000. Address W. Partridge, Foxburg Inn, Foxburg.

Pa., Indiana—Raylo Co., 1228 Fulton Bldg., Pittsburgh, soon takes bids 4 story, 50 x 120 ft. factory, Philadelphia St., here. $85,000. Private plans.

Pa., Pittsburgh—Ward Baking Co., 3100 Liberty Ave., plans 1 story auto repair shop. $50,000.

La., Kenner — Natl. Petroleum Co., Hibernia Bank Bldg., New Orleans, having plans prepared for oil refinery, and extensive improvements to holdings, here. P. A. Leslie, mgr.

O., Ashtabula—Silurium Mfg. Co., c/o E. W. Steinbrenner, Sloan Bldg., Cleveland, having plans prepared by A. W. Harris, archt., Schofield Bldg., Cleveland, 1 and 2 story, brick, steel and concrete factory, plain foundation, here. $250,000. Noted May 19.

O., Columbus—W. L. Lillie Co., Sycamore St., takes bids about Jan. 1, 2 story, 40 x 250 ft. factory addition. $100,000. J. B. Powell, 1455 Eastwood Ave., archt.

O., East Palestine—Natl. Fireproofing Co., 1126 Fulton Bldg., Pittsburgh, Pa., having plans prepared by S. F. Heckert, archt., Bessemer Bldg., Pittsburgh, 1 story, 100 x 100 ft. brick plant, here. $60,000.

Mich., Detroit—O. H. Kavieff, archt., 712 Empire Bldg., prepared plans for 1 story, 100 x 100 ft. rein.-con., brick and steel garage, plain foundation, Lawndale and Navy Aves. $74,000. Owner's name withheld.

Ill., Jacksonville—International Shoe Co., 1505 Washington St., St. Louis, Mo., having plans prepared by A. Hume, archt., c/o owner, 3 story, brick and steel factory, here. $50,000.

Ill., Joliet—Flint Sanitary Mills Co., c/o G. and T. Flint, having plans prepared by H. A. Hahn archt., c/o Davis-Watkins Mfg. Co., Davis and 23rd Sts., North Chicago, rein.-con., brick and stone dairy. $150,000.

Ill., Zeigler—Zeigler Ice & Bottling Co. having plans prepared by Kennerly & Stiegemeyer, archts., Title Guaranty Bldg., St. Louis, Mo., 2 story, 90 x 105 ft. rein.-con. and brick plant. $50,000. Noted Nov. 17.

Wis., Dundas—Calumet Packing Co., c/o P. H. Peacock, secy., 309 Michigan Ave., Sheboygan, plans 2 story, 60 x 85 ft., canning plant, brick, rein.-con. and tile. $40,000. Architect not selected.

Wis., Fond du Lac—Combination Door & Screen Co., 180 Ruggles St., having plans prepared by B. E. Mehner, archt., 6 East Division St., 3 story, 50 x 50 ft. factory, brick, rein.-con. and steel. $45,000. H. Schmidt, pres.

Industrial Works (Continued)

Wis., Mayking (Antigo P. O.)—C. and R. J. Wunderlich Co., Antigo, plans rebuilding electric light plant and dam. $50,000.

Wis., Milwaukee—City plans 2 story pipe storage plant, brick, and concrete, plain foundation. $50,000. C. E. Malig, City Hall, archt.

Wis., Milwaukee—O. Pietsch Dye Wks., 254 West Water St., and H. E. Birkholtz, engr., 216 West Water St., open bids about Nov. 28, (1st unit of plant) 1 story, 120 x 160 ft., brick and steel, plain foundation, 3rd St. $50,000.

Wis., Milwaukee—See "Buildings."

Wis., Milwaukee—M. Tullgren & Sons, archts., 425 East Water St., preparing plans and soon takes bids 1 story, 98 x 123 ft. film storage building, brick and concrete, plain foundation, Wells and 11th Sts., for Republic Investment Co., 160 5th St. $50,000.

Wis., Owen—The E. Z. Box Co. plans 2 story, 60 x 200 ft. factory, brick, rein.-con. and steel, Main St. $170,000. Address G. E. Anderson, c/o Owen Lumber Co., pres. Architect not selected.

Wis., Sheboygan — Wisconsin Mirror Plate Co., 20th and Maryland Sts., had plans prepared by W. C. Weeks, archt., 720 Ontario St., 2 story, 60 x 118 ft. factory, brick, rein.-con. and steel, Indiana St. $150,000.

Wis., Stoughton—Stoughton Wagon Co. plans 1 and 2 story, 75 x 210 ft. factory, brick and rein.-con. factory, Main St. $300,000. F. J. Vea, mgr. Architect not selected.

Ia., Des Moines—F. Rodgers, 615 Clinton St., having plans prepared by F. A. Harris, archt., 3815-4th St., 3 story, 50 x 132 ft. rein.-con., brick and steel garage, 615 Clinton St. $50,000.

Ia., Sioux City—F. M. Pelletier Co., 413 Pierce St., plans 3 story, 75 x 150 ft., rein.-con., brick and stone warehouse. $50,000. Architect not selected.

Kan., Columbus—C. & A. Motor Car Co. plans garage and machine shop on Main St. $50,000. Architect not selected.

Mo., Joplin—Joplin Zinc Products Co., c/o O. Greenstreet, plans 2 story shingle plant and rolling mill, brick and steel. $50,000.

Mo., St. Louis—Ludewig & Drusoerner, archts., 3545 Humphrey St., soon lets contract 3 story, 30 x 75 ft., brick and steel factory, Grand and Clark Sts., for Hartenbach Carpet Cleaning Co. $40,000.

Mo., St. Louis—J. G. Perculers, Jr., 603 Wainwright Bldg., having plans prepared 1 story, 45 x 150 ft., brick and steel garage and machine shop, 5152 Southwest Ave. $45,000. Private plans.

Ont., Bowmanville — Ontario Potteries Ltd. preparing plans concrete and brick factory. $50,000. Private plans.

Ont., Kincardine—F. B. Coombe Furniture Co., plans 3 story, 50 x 80 ft. addition to factory. $50,000.

Ont., Port Elgin—E. Gandier of Teasdall Hosiery Co., London, plans factory, here. $40,000.

Ont., Toronto—Gotfredson—Joyce Corp. Ltd., Walkerville, plans 2 story, rein.-con., brick and steel garage, service station, office and show room, Spadina Ave., here. $100,000. W. H. Leishman, 106 Jarves St., local mgr. Architect not selected.

Ont., Toronto—Toronto Transportation Comn., Ryrie Bldg., plans 1 story concrete, brick and steel additions to car barns on Connaught and Eglington Aves. $200,000. J. B. Carswell, Ryrie Bldg., constr. engr.

BIDS DESIRED

Pa., Phila.—D. D. Cassidy, 1918 North Woodstock St., receiving bids 1 story, 36 x 120 ft. brick and steel garage, plain foundation, 1935 North Woodstock St. $45,000. H. R. Stackhouse, 129 South 15th St., archt.

O., Cleveland—Peoples Transfer Co., 6909 Lexington Ave., taking bids 4 story, 47 x 90 ft., rein.-con. warehouse, East 69th St., and Lexington Ave. $150,000. Allen-Osborn Co., Rose Bldg., archts.

Ill., Rock Island—Nov. 29, by Rock Island Transfer & Storage Co., 124 West 17th St., 4 story, 75 x 100 ft., rein.-con. warehouse. B. L. Burke, pres., Cervin & Horn, Safety Bldg., archt.

Ill., West Chicago—Nov. 29, by E. C. Blake, archt., 810 Davis St., Evanston, 1 story condensing plant, brick and steel, here, for Reid-Murdoch & Co., Clark St. Bridge, Chicago. $40,000.

Wis., Burlington—M. F. White, archt., 68 Wisconsin St., Milwaukee, receiving bids 1 story, 68 x 134 ft. garage, concrete, plain foundation, for J. A. Luke, Burlington. $40,000.

Minn., Minneapolis—Dec. 2, by State Bd. Control, Capitol Bldg., St. Paul, 3 story mines experiment station, rein.-con., brick, tile and stone, at State University. $225,000. D. F. Mullen, secy. C. H. Johnston, 715 Capitol Bank Bldg., St. Paul, archt. Noted Dec. 2.

Mo., St. Louis—Nov. 29, by Adalil Realty Co., c/o P. T. Bierman, Ry. Exch. Bldg., 1 story, 50 x 234 ft., brick and steel garage, Spring and Washington Sts. $55,000. O. J. Popp, Odd Fellows Bldg., archt. Noted Nov. 17.

Mo., St. Louis—Nov. 29, by A. B. Groves, archt., Stock Exch. Bldg., 7 story, 25 x 100 ft., brick and rein.-con. factory, 109 North 12th St., for J. Forshaw Stove & Heating Co., c/o J. Forshaw, pres., 111 North 12th St. $75,000. Noted Oct. 6.

Mo., St. Louis—Nov. 29, by Polar Wave Ice & Fuel Co., Grand and Olive Sts., 2 story, rein.-con., brick and steel plant, Gravois Ave. and Decolsey St. $500,000. H. G. Clymer, Wainwright Bldg., archt. Noted Oct. 6.

Tex., Kerrville—See "Buildings."

BIDS RECEIVED

O., Columbus—C. E. Steele, secy. Bd. Directors Ohio State University, opened bids Nov. 18, 1 story, 100 x 300 ft., addition to power house, on campus, from E. Elford, 307 East Gay St., $162,900; E. H. Latham Co., 60 East Broad St., $167,122; R. H. Evans Co., Fer-ris Bldg., $178,693. Noted Aug. 4.

CONTRACTS AWARDED

Me., Sanford—Goodall Worsted Co., 1 and 5 story, 235 x 274 ft., combing and spinning mill, to Aberthaw Constr. Co., 27 School St., Boston, $100,000.

Mass., Haverhill—C. M. Hilley Bros. Co., 30 Pleasant St., will build 7 story, brick and rein.-con. factory, plain foundation, Water, Chestnut and School Sts., by day labor. $500,000. Noted Nov. 10.

Mass., Springfield—D. A. Loomis, 1 story, 70 x 145 ft., rein.-con., brick and steel garage, plain foundation, Main St., to Gagnier & Augers, 327 Main St. $40,000.

Conn., Hartford—J. P. Nielson & Co., 86 Maple Ave., will build 2 story, 45 x 90 ft., brick and steel addition to garage, by day labor. $40,000. Private plans.

Conn., New Haven—J. W. Hine, Inc., 88 Commerce St., will build 1 story, 90 x 90 ft., brick, concrete and steel addition to garage, by day labor. $40,000. P. Sellers, 207 Orange St., engr.

Conn., New Haven—Hull Brewing Co., 14 Whiting St., 3½ story, 31 x 60 ft., rein.-con. and brick factory, State St., to Connor & Haggerty, Inc., 172 Norton St. $40,000.

Conn., New Haven—C. P. Judge, 581 State St., 1 story, 80 x 130 ft., brick and steel garage, State St., masonry and steel, etc., to T. F. Conniff, 173 Mansfield St.; carpentry, to M. J. Gibbud Co., 730 Chapel St. $40,000.

N. Y., New York—Family Laundry Corp., 1471 Wilkins Ave., 2 story, brick, steel and concrete laundry, plain foundation, 5th Ave. and 141st St., to J. Zimmerman, 18 East 41st St., $400,000.

N. J., Homestead—Atlas Finishing Co., 3 story, brick, steel and concrete factory, plain foundation, Paterson Plank Rd., to Industrial Eng. Co., 30 Church St., New York, $100,000. Noted Nov. 10.

N. J., Pleasantville—P. E. Flotron Co., Lafayette Bldg., Phila., 3 story, 100 x 130 ft., ice factory, rein.-con., brick and steel, plain foundation, here, to W. S. Schull, 6037 Ellworth St., Phila., $150,000.

Pa., Scranton—Smith & Clark, Water and Tannery Sts., Wilkes Barre, 4 story, 60 x 160 ft. ice cream plant, Wyoming Ave., here, to W. Perry, 116 Putnam St., $90,000; percentage basis. Noted Sept. 1.

Md., Frostburg—D. E. Gunter, 1 story, auto repair and service station, brick and steel here, to Austin Co., Bulletin Bldg., Phila., $48,000.

Wash., D. C.—J. E. Cox, warehouse, to A. L. Smith, Woodward Bldg., cost to exceed $50,000.

Ga., Atlanta—Atlantic Ice & Coal Co., Washington St. Viaduct, 2 story, ice plant rein.-con., on Murphy and Benjiman Sts., to Foundation Co., 3rd Natl. Bank Bldg., $150,000.

O., Warren—Bronx Equipment Co., brick and steel additions to industrial building, plain foundation, to Walker & Curley, 106 Bridge St., Pittsburgh, Pa., $150,000.

Ill., Chicago—P. Gerhardt, archt., 64 West Randolph St., 7 story, 61 x 100 ft. warehouse, brick and stone, 359 Ontario St., to Ebenholtz & Jorgenson Co., 2757 West North Ave., for Barrett & Barrett, c/o architect. $300,000. Noted Aug. 25.

Ill., Waukegan—Wilson & Ohm, 215 South Genesee Ave., 2 story, 50 x 130 ft. garage, brick and steel, to Peterson & Weeks, Waukegan, $45,000.

Wis., Appelton—West End Auto Co., c/o F. I. Phillips, 476 South St., 1 story, 40 x 120 ft. garage, brick, rein.-con. and steel, College St., to Wisconsin Eng. & Constr. Co., Wausau, $65,000.

Wis., Beloit—Morks Garage, P. O. Box 227, 1 story, 50 x 120 ft. garage, brick, rein.-con. and steel, Main St., to W. B. Gates, Walworth, $56,000.

Wis., Milwaukee—F. C. Grass Bros. Co., 133 Muskego Ave., 1 and 2 story, 56 x 145 ft. cold storage plant and warehouse, brick and timber, plain foundation, Muskego Ave., by day labor. $40,000.

Wis., Milwaukee—O. Jaeger Baking Co., 914 Central Ave., 2 story, 50 x 150 ft. storage building, brick and wood, plain foundation, 9th St., to W. Steigerwald & Sons, 2303 Galena St., $60,000.

Cal., Los Angeles—Wilshire Fireproof Storage Co., c/o E. T. Flaherty, archt. and engr., 435 I. W. Hellman Bldg., 8 story, 60 x 100 ft. warehouse, rein.-con., brick and terra cotta, 1st and Western Sts., to C. A. Fellows, Central Bldg., $115,000.

Ont., Toronto—Chapmans Ltd., Kent Bldg., ice plant to W. M. Sutherland Co., Ltd., Lumsden Bldg., $70,000.

Man., Lac Du Bonnet—See "Miscellaneous."

Buildings

PROPOSED WORK

Conn., Hartford — Temple — Bldg. Assn Com., Knights of Pythias, plans 4½ story, 60 x 150 ft., brick, stone, steel and concrete, High St. $400,000. J. K. Baskerville, pres. Berenson & Moses, 1026 Main St., archts. Noted June 23.

Conn., West Haven—Theatre—DeWaltoff Eng. Co. 185 Church St., plans 1 story, 75 x 100 ft., brick, tile and concrete, at Savin Rock. $150,000. Private plans.

N. Y., Brooklyn—School—Holy Rosary Roman Catholic Church, 141 Chauncey St., had plans prepared by Helmle & Corbett, archts. and engrs., 130 West 42nd St., New York, 3 story, brick, steel and stone, plain foundation, Bainbridge St. $250,000.

N. Y., New York—Bank and Office—Bank of United States, 320 5th Ave., soon takes bids 5 story, brick, steel and stone, plain foundation, 1765 Madison Ave. $250,000. L. A. Abramson, 48 West 46th St., archt. and engr. Noted May 26.

N. Y., New York—Hospital—Bronx Jewish Hospital, c/o F. Y. Joannes, archt. and engr., 52 Vanderbilt Ave., soon takes bids brick and stone memorial hospital, Dyckman St., $150,000. Noted Feb. 3.

N. Y., New York—Office and Stores—A. G. Spalding, 126 Nassau St., plans 10 story, Nassau and Ann Sts.

N. Y., New York—Y. M. C. A. plans to build, Sullivan and Richards Sts. $165,000.

N. Y., Syracuse—Hotel—Syracuse Hotel Corp., Burney Bldg., having sketches made by G. B. Post & Sons, archts. and engrs., 101 Park Ave., New York, 11 story, brick, steel and stone, plain foundation, Harrison and Warren Sts. $2,500,000. Noted May 19.

N. J., Jersey City—Apartment—O. H. Albenesius, 2465 Hudson Blvd., plans 12 story, 110 x 130 ft., brick and steel, Gifford Ave. and Hudson Blvd. $800,000. Architect not selected.

N. J., Jersey City—Office and Auditorium—W. Stanton, c/o Jersey City Chamber of Commerce, having plans prepared by W. A. Newman, archt., Palisade Ave., 5 story, 141 x 181 x 141 ft., stone, steel and terra cotta, Montgomery St. and Newark Ave. $250,000.

N. J., Princeton — Chapel — Princeton University having plans prepared by Cram & Ferguson, archts., 15 Beacon St., Boston, for 58 x 270 ft. chapel. $500,000. J. G. Hibben, pres.

N. J., Trenton—Apartment—C. F. Hildebrecht, West State St., having plans prepared by W. Hankin, archt., 39 East State St., apartment, West State St. $560,000.

N. J., Trenton—Schools—Bd. Educ. plans 2 high schools and 1 negro school. $2,000,000. Architect not selected.

Pa., Braddock—Theatre and Office—Crystal Amusement Co., c/o B. Burke, soon takes bids for superstructure and completion foundation, 1 story, 80 x 125 ft., Braddock Ave., $250,000. H. S. Bair, Vandergrift Bldg., Pittsburgh, archt. oNted Sept. 22.

Pa., Gettysburg — Hotel — Eagle Hotel Co. having plans prepared by E. B. Medoff, archt., Lincoln Bldg., Phila., altering and building 4 story, 100 x 175 ft. brick and steel addition, plain foundation, $150,000.

Pa., Scranton—Office—Glen Alden Coal Co., 306 Jefferson Ave., soon lets contract

Buildings (Continued)

6 story, brick, steel and stone, plain foundation. Jefferson Ave. $250,000. K. M. Murchison, 101 Park Ave., New York, engr.

Pa., Stowe—School—Bd. Educ. Stowe Twp. having plans prepared by J. H. Phillips, archt. Fulton Bldg., Pittsburgh, school here. $200,000.

Fla., Jacksonville — Merchantile — Greenleaf & Brosby Co., 41 West Bay St., plans 4 story, (utimately 8 story) 72 x 110 ft. rein.-con. brick and steel. Cost between $150,000 and $200,000.

O., Avon Lake—School—Bd. Educ. having plans prepared by Fulton-Taylor & Cahill, archts., 8120 Euclid Ave., Cleveland, 2 story, 78 x 160 ft., brick, steel and concrete, plain foundation. $150,000.

O., Cleveland—Commercial and Apartment—Continental Constr. Co., c/o E. A. Curtis, archt., 605 Republic Bldg., had plans prepared 3 story, 62 x 80 ft., brick and timber, plain foundation, 9900 Hough Ave. $150,000.

O., Cleveland—Commercial and Office—Chestnut-12th St. Co., c/o W. S. Ferguson & Co., engrs., 1900 Euclid Ave., plans 12 story, brick, steel and concrete, plain foundation, East 12th St. and Chestnut Ave $1,000,000.

O., Greenville—School—Bd. Educ. having plans prepared by Walker & Norwick, archts., Amer. Bdg., Dayton, 2 story, 80 x 200 ft., rein.-con. and brick. $150,000.

Ind., DeSoto—School—Bd. Educ., c/o J. Bowers, secy., having plans prepared by Keffer & Jones, archts., Masonic Bldg., Des Moines, 3 story, 65 x 110 ft., brick, stone, rein.-con. and steel. $150,000.

Ind., South Bend—Dance Hall and Store—Palace Theatre Corp., c/o J. S. Aroner & Co., archts., 25 East Jackson Blvd., Chicago, preparing plans and soon takes bids 3 story, 92 x 165 ft., rein.-con., brick and terra cotta. $350,000.

Mich., Grosse Pointe (Detroit P. O.)—Club House—Grosse Pointe Country Club having plans prepared by A. Kahn, archt., 1000 Marquette Bldg., Detroit, 2 story, 40 x 280 ft. rein.-con., brick and steel, plain foundation. $250,000.

Mich., Jackson — Home — Bd. Management having plans prepared by C. Allen & Sons, archts., 402 Dwight Bldg., Jackson, 2 story, 60x64 ft. concrete and brick. $150,-000.

Ill., Chicago—Office and Apartment—W. P. Doerr, archt., 28 East Jackson Blvd., preparing plans and soon takes bids 2 story, 130 x 166 ft., brick and terra cotta, 79th St. and South Shore, for G. F. Nord and C. Ringer, c/o architect. $150,000.

Ill., Green Valley—High School—Bd. Educ., c/o W. A. Kiefer, pres., having plans prepared by J. Zimmer, archt., Pekin, 2 story, rein.-con., brick, steel and stone. $150,000. Noted Sept. 29.

Ill., Marion—Court House—Bd. Supervs. Williamson Co. having plans prepared by N. S. Spencer & Son, archts., 37 West Van Buren St., Chicago, 3 story, 80 x 100 ft., brick and stone. $200,000. W. D. Sinko, pres.

Ill., Quincy—School—Bd. Educ., c/o G. Gabriel, pres., Musselman Bldg., having plans prepared by E. M. Wood, archt., 126 North 8th St., 3 story, brick and stone, 8th and Maple Sts. $200,000. Noted April 28.

Ill., Savanna—High School—Savanna Twp. High School, c/o L. A. Oyster, secy., 835 Main St., having plans prepared by Ashby-Ashby & Schulze, archts., 1511 West Jackson Blvd., Chicago, 2 story, 70 x 100 ft., rein.-con., brick and stone. $150,000.

Wis., Chippewa Falls—Junior High and Vocational School—School Bd. takes bids about Jan. 1, 2 story, brick and concrete, plain foundation. $175,000. E. O'Neil, chn. building com. E. J. Hancock, Eau Claire, archt.

Wis., Madison—Bank and Office—Commercial Natl. Bank, State St., having plans prepared by A. Moorman & Sons, archts., Chamber Commerce Bldg., St. Paul, Minn., 4 story, 60 x 200 ft., brick, rein.-con. and steel, State St. $200,000.

Wis., Madison—University of Wisconsin Y. M. C. A., 740 Langdon St., plans 4 story, 50 x 250 ft., brick and rein.-con., Langdon St. $150,000. F. Wolf, genl. secy. Architect not selected.

Wis., Milwaukee—Business—R. Razall, archt., 114 Grand Ave., opens bids about Nov. 28, 3 story, 80 x 114 ft. business building and garage, rein.-con. and brick, plain foundation, Bway., for Conro Estate, 902 Wells Bldg. $150,000.

Wis., Milwaukee — Commercial and Science—Marquette University, 1115 Grand Ave., having preliminary plans prepared by A. C. Eschweiler, archt., 141 Wisconsin St., for 4 story, 140 x 210 ft., brick and concrete, plain foundation, 13th St. and Grand Ave. $200,000.

SIPHON PIPES—NEW YORK
Contract 211

Bids were received Nov. 10 (lowest 3) for constructing eight siphon pipes of Catskill Aqueduct in towns of Mt. Pleasant and Greenburg and City of Yonkers, from (A) T. Crimmins Contg. Co., 126 East 59th St.; (B) Booth & Flinn, Ltd., 17 Battery Pl., (C) F. Snare Corp., 8 West 40th St. Contractors all of New York City. The unit bids were as follows:

	A	B	C
35,000 cu.yd. removal of soil	$1.00	$0.60	$1.00
172,000 cu.yd. earth excavation	1.40	.60	1.50
37,000 cu.yd. rock excavation	3.75	2.50	6.50
Stream, highway and railroad crossings (lump sum)	15,000.00	25,000.00	18,000.00
182,000 cu.yd. refilling and embanking	.75	.45	.70
30,000 cu.yd. surface dressing	1.00	.75	1.00
13,840 lin.ft. 11-ft. 3-in. steel pipe, ¼-in. plate, lap-joints	34.00	69.50	50.00
470 lin.ft. 11-ft. 3-in. steel pipe, ½-in. plate, lap-joints	40.00	76.50	56.00
4,555 lin.ft. 11-ft. 3-in. steel pipe, ½-in. plate, longitudinal butt-joints	45.00	80.00	59.00
1,085 lin.ft. 11-ft. 3-in. steel pipe, ⅝-in. plate, longitudinal butt-joints	48.00	83.00	63.00
60,000 lb. steel castings	.20	.20	.15
35,000 lb. steel for reinforcing concrete	.05	.05	.04
15 tons cast-iron pipe and special pipe castings	150.00	170.00	100.00
3,000 lb. miscellaneous bronze, brass, copper and lead	.42	.60	1.00
35,000 lb. miscellaneous cast iron, wrought iron and steel	.11	.12	.08
30,000 lb. galvanizing	.02	.05	.03
60,000 lb. caring for and setting metal-work furnished by the City	.05	.03	.04
1,000 cu.ft. cutting concrete	1.00	1.00	1.00
72,000 bbl. Portland cement	3.50	3.00	3.00
36,800 cu.yd. concrete masonry around steel pipes	10.00	7.00	10.00
1600-cu.yd. concrete masonry for blow-off chambers, culverts, waterways, retaining-walls and other appurtenant structures	15.00	15.00	14.00
300 cu.yd. reinforced concrete	17.00	15.00	20.00
700,000 sq.ft. mortar lining of steel pipes	.15	.20	.20
2,000 cu.yd. dry rubble masonry and paving	3.00	4.00	6.00
400 cu.yd. rubble masonry and paving in mortar or grouted	4.00	6.00	8.00
1,000 cu.yd. crushed stone and gravel	5.00	3.50	3.50
1,500 lin.ft. tile pipe, 6 in. and less in diameter	.40	1.50	.80
1,000 lin.ft. tile pipe, 8 in. to 12 in. in diameter	.73	2.50	1.40
500 lin.ft. tile pipe, larger than 12 in., and not exceeding 24 in. in diameter	2.71	4.00	2.50
350 M. ft.b.m. timber and lumber	80.00	75.00	80.00
Stop-planks (lump sum)	10,000.00	2,000.00	16,000.00
1,000 lin.ft. stone guard walls	2.30	2.50	3.00
1,000 lin.ft. wooden fences and guard-rails	.65	1.00	.60
15,000 lb. wire fences	.16	.06	.30
50 acres seeding and grassing	200.00	150.00	100.00
2,500 sq.ft. engineers' offices	10.00	4.00	5.00
100 medical and surgical practitioners	300.00	200.00	150.00
40 months sanitary services	200.00	200.00	400.00
15,000 lb. chlorinated lime	.01	.04	.05
30,000 lb. liquid chlorine	.10	.07	.12
5 automatic control chlorine dosing machines	3,000.00	2,500.00	2,000.00
Cleaning up (lump sum)	3,300.00	8,000.00	3,000.00
Extended totals	$2,275,360	$2,589,090	$2,679,220

Wis., Racine—Temple—Masonic Temple Assn., c/o F. L. Norton, 1145 Main St., having plans prepared by E. D. Funston Co., archts., 503 Robinson Bldg., 2 and 3 story, 60 x 150 ft., brick, rein.-con. and steel, 1020 Main St. $150,000.

Wis., Sheboygan—Court House—Sheboygan Co., c/o G. W. Leberman, 624 New York Ave., having sketches made by E. A. Stubenrouch, archt., 629 North 8th St., 3 story, 100 x 110 ft., brick, rein.-con. and steel, Center St. $150,000.

Wis., Sheboygan — Hotel — Wisconsin Hotel Co., c/o A. W. Merrit, pres., Hotel Foeste, having plans prepared by E. A. Studenrouch, archt., 629 North 8th St., 4 story, 75 x 139 ft., brick, rein.-con. and steel, 8th St. $160,000.

Wis., Sheboygan—Office—E. A. Juul, archt., 805 North 8th St., takes bids about Dec. 1, 4 story, 168 x 180 ft., brick and rein.-con., Water St., for Phoenix Chair Co., South 12th and Virginia Sts. $150,000.

Ia., Cheston—High School—Bd. Educ. plans 3 story, rein.-con., brick, stone and tile. $200,000. J. V. Richardson, secy. Architect not announced.

Ia., Dubuque—School—Bd. Educ., c/o L. Palen, secy., Business and Insurance Bldg., plans Jackson School, 2 story, rein.-con., brick and stone. $200,000. Architect not selected.

Kan., Osawatomie—Hospital—State, c/o J. A. Kimball, Topeka, rejected bids opened Nov. 8, 2 story, 36 x 234 ft., here. $150,-000. R. Gamble, 1415 Fillmore St., Topeka, archt. Noted Oct. 20.

S. D., Canton—High School—Bd. Educ. having plans prepared by Schuemacker & Finlehor, archts., Sioux Falls, 2 story, 160 x 180 ft., rein.-con., brick, stone and steel. $200,000. C. Sandvig, pres.

Mo., Columbia—Science Hall—Stephens College having plans prepared by J. P. Jamieson, archt., Security Bldg., St. Louis, 3 story, 60 x 180 ft., brick, stone and steel. A. Wood, pres. $150,000. Noted Nov. 17.

Mo., Kansas City—Hotel Apartment—Bellerive Investment Co., 111 North 7th St., St. Louis, having plans prepared by P. J. Bradshaw, archt., International Life Bldg., St. Louis, 15 story, 110 x 203 ft., rein.-con., Brick and stone, Armour and Warwick Blvds., here. $1,000,000.

Mo., Maplewood — High School — Bd. Educ., c/o P. M. Brossard, secy., 3500 Cambridge Ave., having plans prepared by W. B. Ittner, archt., Bd. Educ. Bldg., St. Louis, 5 story, rein.-con., brick and stone. $160,000.

Mo., St. Charles—High School—Bd. Educ. plans 2 story, rein.-con., brick and stone. $200,000. Architect not selected.

Mo., St. Louis—Store—L. E. Dorr, 3922 Washington Ave., having plans prepared by P. J. Bradshaw, archt., International Life Bldg., 2 story, brick and terra cotta, De Baliviere and Waterman Aves. $150,-000.

Mo., St. Louis—Theatre and Office—C. E. Thimmig, 1662 South Jefferson Ave., having plans prepared by P. J. Bradshaw, archt., International Life Bldg., 12 story, rein.-con., brick and stone, Grand and Washington Sts. $1,500,000.

Cal., Pasadena—High School—Bd. Educ. plans group of 4 buildings, Pennsylvania St. and Raymond Ave. $500,000. Allison & Allison, 1405 Hibernian Bldg., Los Angeles, archts.

Que., Hull — Exchange — Bell Telephone Co. of Canada, 118 Notre Dame St. W., Montreal, plans exchange, here. $240,000. J. A. Gorrie, Queen St., Ottawa, Ont., mrg. Architect not selected.

Ont., Hamilton—School—Bd. Educ. having plans prepared by F. W. Warren, archt., Home Bank Bldg., 15 room, rein.-con., brick and steel. $300,000.

BIDS DESIRED

N. Y., New York—Apartments—Bainbridge Constr. Co., c/o C. Kreymborg, archt. and engr., 2534 Marion Ave., two 5 story, brick, steel and stone, plain foundations, 188th St. and University Ave. $160,000 each. Work will be done by separate contracts.

N. Y., New York — Apartment — Nine Twenty 5th Ave. Corp., c/o J. E. Carpenter, archt. and engr., 681 5th Ave., 13 story, brick, steel and stone, plain foundation, 5th Ave. and 73rd St. $700,000. Work will be done by separate contracts.

N. Y., New York—Store and Office, etc.—Herald Sq. Press Bldg., c/o Schwartz & Gross, archts. and engrs., 347 5th Ave., brick, steel and stone store, office and factory plain foundation, 313-321 West 27th St. $400,000. Work will be done by separate contracts.

N. J., Glassboro—Normal School—Dec. 6, by Comn. of Educ., State House, Trenton, 2 story, 185 x 268 ft., rein.-con., brick and steel, concrete pile foundation, here. $500,000. Guilbert & Betelle, 546 Broad St., Newark, and A. H. Moses, Merchantville, archt. Noted May 12.

D. C., Wash.—Temple—Cutler & Moss, archts., 13th St. and New York Ave., receiving bids for temple, 10th and U Sts.,

Buildings (Continued)

for New Masonic Hall Corp., c/o architects, $400,000.

O., Castalia—High School—Dec. 15, by Bd. Educ., 2 story, 103 x 106 ft., brick, steel and concrete, plain foundation. $200,000. F. L. Packard, New Hayden Bldg., Columbus, archt. Noted Feb. 10.

Mich., Detroit—School—Dec. 6, by Bd. Educ., 2 story, 80 x 125 ft. addition to Stephens School, rein.-con., brick and steel, plain foundation, Lambert and Seneca Aves. $150,000. Malcomson, Higginbotham & Palmer, 405 Moffat Bldg., archts.

Mich., Kalmazoo — School — Dec. 5, by Bd. Educ., 2 story, concrete, brick, steel and stone, plain foundation, Portage St. $150,000. Billingham & Cobb., Press Blk., archts.

Mich., Kalmazoo—High School—Dec. 12, by Bd. Educ., 2 story, rein.-con., brick and steel addition, plain foundation. $200,000. Robinson & Campau, 715 Michigan Trust Bldg., Grand Rapids, archts.

Ill., Amboy—High School—Nov. 29, by J. W. Coleman, archt., 6257 St. Lawrence Ave., Chicago, 2 story, 107 x 189 ft., rein.-con., brick, steel and stone, for Bd. Educ. $250,000. Noted Nov. 3.

Minn., Minneapolis—Junior High School—Dec. 9, by Bd. Educ., 3 story, 218 x 230 ft., rein.-con., brick, tile and stone, Clinton Ave. and 38th St. $600,000. E. G. Womrath, business supt. E. H. Enger, 305 City Hall, engr.

Neb., McCook — Hospital — Dec. 1, by Archer & Goud, archts., Reliance Bldg., Kansas City, Mo., 3 story, 40 x 112 ft., rein.-con., brick and stone, for St. Patricks Roman Catholic Church, here. $150,000. Noted Sept. 29.

Kan., Eldorado—School—Dec. 23, by Baptist Church Congregation, c/o M. Clemmons, pastor, 3 story, 100 x 100 ft., brick, stone and steel. $150,000. J. H. Felt, Grand Ave. Temple, Kansas City, Mo., archt.

Kan., Independence—High School—Dec. 15, by N. S. Spencer, archt., 37 West Van Buren St., Chicago, 3 story, 180 x 235 ft., rein.-con., steel and brick, for Bd. Educ. $400,000.

Tex., Kerrville—Sanitorium—Dec. 5, by S. B. Cowell, chn. State Bd. Control, Austin, (3rd unit Amer. Legion Memorial Sanitorium), incl. 2 story infirmary, 1 story laundry, 2 story nurses home, 1 story boiler house, all brick tile and concrete; and 155 ft. concrete smoke stack, etc. $650,000. Phelps & Dewees, Gunter Bldg., San Antonio, engrs.

Col., Denver — Hall — H. J. Manning archt., Majestic Bldg., receiving bids, 3 story, 150 x 180 ft., on West 50th Ave. and Lowell Blvd., for Society of Jesuits. $300,000. Noted Sept. 8.

Cal., Coronado — (San Diego P. O.) — Apartment—S. B. Fry, receiving bids 4 story, 110 x 165 ft., 4th and Orange Sts. $200,000. L. J. Gill, 222 Owl Bldg., San Diego, archt.

BIDS RECEIVED

Mass., Boston—Municipal—Bldg. Dept., 3 story, 40 x 230 ft., brick, Commercial St., from M. Seretto, 3 Tremont Row, $186,400; F. G. Coburn, Old South Bldg., $202,984; Coblo & Griffin, 46 Cornhill St., $207,000. Noted Nov. 10.

O., Canton—High School—Bd. Educ. opened bids Nov. 2, 3 story, 144 x 226 ft., brick, steel and concrete, plain foundation, 6th St., from A. F. Wendling Co., Massillon, $811,827; R. H. Evans Co., Swan and High Sts., Columbus, $822,000. Noted Oct. 27.

O., Columbus—University—C. E. Steele, secy. Bd. Directors, Ohio State University, opened bids Nov. 18, (1a) 3 story, 94 x 140 ft. addition to physics building, (b) alternate, additional story on present physics building, (2) 4 story, 40 x 150 ft. girls' dormitory (Mack Hall), (3) 3 story, 60 x 100 ft. addition to Brown Hall, from E. Elford, 307 East Gay St., (1a) $67,884, (b) $63,053, (2) $143,700, (3) $84,370; R. H. Evans, Ferris Bldg., (1a) $68,302, (1b) $62,323, (3) $91,496; E. Latham Co., 60 East Broad St., (1a) $69,064; D. W. McGrath & Sons, New 1st Natl. Bank Bldg., (1b) $55,818, (3) $89,980; E. E. Beckett, 265 Oakland Ave., (2) $121,720; Le Vegue Co., (2) $133,200. Noted Aug. 4.

CONTRACTS AWARDED

Mass., Chelsea (Boston P. O.)—Hebrew Free School, 2 story, 100 x 100 ft., brick and steel, plain foundation, Washington St., to L. Martiniello, 48 Dighton St., Brighton. $150,000. Noted June 16.

N. Y., New York—Apartment—One Fourteen West 70th St. Corp., c/o Somerfield & Steckler, archts. and engrs., 31 Union Sq., 9 story, brick, steel and stone, plain foundation, 114 West 70th St., by day labor. $450,000.

Pa., Phila.—Office—Sweeten Automobile Co., Parkway Bldg., brick, steel and stone, plain foundation, Broad and Cherry Sts., to Irwin & Leighton, 126 North 12th St., $800,000.

D. C., Wash.—Apartment—A. J. Howard, 931 G St., N.W., apartment at 16th and U Sts., N.W., to F. H. Gore, 4409 39th St., N.W. $150,000.

D. C., Wash.—Bank—Farmers and Mechanics Natl. Bank of Georgetown, bank, to W. P. Lipscomb Co., Dist. Bank Bldg. $150,000. Noted June 23.

Mich., Detroit — Apartment — Chippewa Apartment Co., c/o J. W. Wilson, archt., 750 David Whitney Bldg., 7 story rein.-con., brick and stone, plain foundation, Parker and Agnes Aves., masonry to O. Misch Co., Detroit Savings Bank Bldg. Total, $750,000.

Ill., Champaign—Hospital—J. M. White, archt., c/o University of Illinois, 3 story, 102 x 109 ft. addition to Burhan Hospital, to North Raffin Constr. Co., 914 Chestnut St., Terre Haute, Ind., for Bd. Trustees, c/o F. Isner. $200,000. Noted Nov. 10.

Ill., Peoria—School—Bd. Educ. c/o G. Mitchell, pres., 2 story, rear addition to manual training school, rein.-con., brick, steel and tile, to W. Allen & Son, Jefferson Bldg., $225,000. Noted Oct. 13.

Wis., Birchwood — High School — Bd. Educ., 2 story, 65 x 105 ft., brick, tile and steel, to Schafer & Olson, Main St., Chippewa Falls, $150,000. Noted Oct. 27.

Wis., Manitowoc—Club House, etc.—Eagles Club Co., 1114 South Main St., 4 story, 110 x 200 ft., brick, rein.-con. and steel, to E. R. Herman, 1402 Hamilton St., $260,000. Noted Sept. 15.

Ia., Davenport—College St. Ambrose College, 518 West Locust St., 4 story, brick, rein-con. and stone, to Blunk & Joehnke, Davenport, $150,000. Noted Sept. 15.

Kan., Wellington—Auditorium—City 2 story 120 x 190 ft., to J. H. Mitchell & Son, Wellington, $200,000. Noted Oct. 20.

Mo., St. Louis — College — H. P. Hess, archt., 4811 Cote Brilliante Ave., 3 story, 172 x 248 ft., rein.-con. and brick, Clayton Rd. and University Lane, to Kellerman Constr. Co., Victoria Bldg., for Christian Bros. College. $500,000. Noted Oct. 6.

Ore., Portland—High School—Bd. Educ., 2 story, James John High School, brick, Smith and Center Aves., Ida and Burr Sts., to G. Isackson, 1013 East Irving St., $189,-106; heating to Dauch Heating & Eng. Co., 348 East Burnside St., $48,000.

Cal., San Diego—Apartment—J. E. Collumb, Spreckels Bldg., will build 4 story, 70 x 200 ft., rein.-con. and brick, 4th and Kalmia Sts., by day labor. $200,000. E. M. Hoffman, 408 Spreckels Bldg., archt.

Ont., Toronto—School—Bd. Educ., 155 College St., 2 story, 10 room, rein.-con., brick, steel and stone, Rose Ave., masonry contract to R. Chalkley & Son, 34 Victoria St., $70,948, carpentry to F. Armstrong, 89 Oak St., $33,069, plumbing and heating to Mechanical Trades Ltd., 54 University Ave., $32,985. Total $175,000.

Federal Government Work

BIDS DESIRED

N. J., New Brunswick—Loading Shed, etc.—Dec. 5, Treas. Dept., Wash., D. C., loading shed, mailing vestibule, etc., at U. S. Post Office, here. J. A. Wetmore, acting superv. archt.

Va., Norfolk—Dredging—Spec. 4553—Dec. 7, by Bureau Yards & Docks, Navy Dept., Wash., D. C., dredging in harbor, here; adv. this issue. Noted Nov. 17.

N. C., Oteen—Changes to Services, etc.—Dec. 6, by Treas. Dept., Wash., D. C., changes to services, etc., at U. S. Pub. Health Serv. Hospital, here. J. A. Wetmore, acting superv. archt.; adv. this issue.

S. C., Columbia—Alterations—Dec. 13, by Treas. Dept., Wash., D. C., alterations to U. S. Post Office and Court House, here. J. A. Wetmore, acting superv. archt.; adv. this issue.

O., Dayton—Home—Nov. 29, at Office Bd. Mgrs. Natl. Home for Disabled Soldiers, 2 story, with five wings, 40 x 49 ft., 92 x 120 ft., 29 x 56 ft., 29 x 156 ft. and 36 x 247 ft. $750,000. Schenck & Williams, Mutual Life Bldg., archts.

Cal., Mare Island—Ovens—Spec. 4540—Nov. 30, by Pub. Wks. Office, Navy Yard, here, for 2 Dutch bake ovens at Marine Barracks, here. C. W. Parks, ch. of bureau. Noted Oct. 20.

BIDS RECEIVED

Md., Perryville—Millwork—Treas. Dept., Wash., D. C., millwork at U. S. Pub. Health Serv. Hospital, here, from O. Duker & Co., Fleet & Albermarle Sts., Baltimore, $19,387; Williamsport Planing Mill Co., Hibbs Bldg., Wash., D. C., $21,300; Amer. Woodworking Corp., 5 Uhler St., Baltimore, $13,333. Noted Aug. 11.

D. C., Bellevue—Chimney—Spec. 4534—Bureau Yards & Docks, Navy Dept., Wash., chimney at Naval Experimental and Research Laboratory, here, (1) work complete, from Rust Eng Co., 406 G St., N.W., Wash., (1) $6,307 (70 days) (2) $5,743 (70 days); H. R. Heinecke, Inc., 540 North Meridian St., Indianapolis, Ind., (1) $6,950 (90 days); M. W. Kellog Co., 90 West St., New York, (1) $6,884 (90 days). Noted Nov. 3.

Tenn., Nashville—Derrick Boat—U. S. Engineer, Custom House, derrick boat, from Dravo Contg. Co., Diamond Bank Bldg., Pittsburgh, Pa., $11,785. Noted Nov. 3.

Ariz., Prescott—Mechanical Equipment—Treas. Dept., Wash., D. C., mechanical equipment, for U. S. Pub. Health Serv. Hospital 50, Whipple Barracks, here, from W. Wilby, Sema, Ala., $99,800; Noland-Clifford Inc., 322 28th St., Newport News, Va., $119,437; C. E. Monday, 1318 Olive St., Phila., Pa., $121,500. Noted Oct. 27.

CONTRACTS AWARDED

Ariz., Prescott—Quarters—Treas. Dept., Wash., D. C., 4 double quarters for officers, 1 double quarters for first class personnel, 1 quarter for married attendants, at U. S. Pub. Health Serv. Hospital 50, Whipple Barracks, here, to W. Simpson Constr. Co., 526 Marsh-Strong Bldg., Los Angeles, Cal., $189,995. Noted Nov. 17.

Miscellaneous

PROPOSED WORK

Shafts and Tunnel—Jersey City, N. J.—New York State Bridge & Tunnel Comn. and New Jersey Interstate Bridge & Tunnel Comn., Room 617, Hall of Records, New York, take bids in December for land shafts and vehicular tunnel under Hudson River. Former bids for land shafts rejected. Noted July 21.

Pier—Wildwood, N. J.—Serpentine Ry. Co., 2016 West Lippincott St., Phila., plans 200 x 400 ft. concrete and timber amusement pier, here. $250,000. S. G. Matthews, 2016 West Lippincott St., Phila., engr.

Elimination of Grade Crossing—Cleveland, O.—Plans grade crossing over C. & P. and Wheeling & Lake Erie R.R. tracks on Bway., in Garfield Heights. $350,000. R. Hoffman, City Hall, engr.

Disposal Apparatus—Racine, Wis.—City, c/o E. F. Hilker, sanitary engr., 319 Lafayette Ave., plans additional garbage disposal apparatus in incinerator.

Lighting and Power System—Belmont, Ont.—Dorchester Twp. plans power lines, here, Nilestown and Harrietsville. $90,000. J. N. Wilson, 90 University Ave., Toronto, engr.

BIDS DESIRED

Electric Wiring, etc.—N. Y., Brooklyn—Dec. 20, by C. L. Cadlen supt. Pub. Wks., Capitol, Albany, electric wiring, power and battery charging equipment, in canal trerminal warehouse, Gowanus Bay, here, Contr. 115. $58,915; Adv. this issue.

Enclosures—Brooklyn, N. Y.—Dec. 5, by Transit Comn., 49 Lafayette St., New York, enclosure for inspection shed and its appurtenances in Livonia Ave. Yard of Route 31, part of Eastern Parkway Rapid Transit R.R., here. G. McAneny, chn.

Binder Stone—New York, N. Y.—Nov. 30, by H. H. Curran, pres. Manhattan Boro, Municipal Bldg., furnishing and delivering 1,200 cu.yd. binder stone and 200,000 wood paving blocks.

Supplies—Toronto, Ont.—Nov. 29, by T. L. Church, mayor, City Hall, annual supply of brass and bronze castings, brass work for house services, c.i. pipes, hydrants, pipe, fittings and valves, lead pipe, special castings, stop valves, refined asphalt, vitr. paving blocks, treated wood blocks, sewer brick, iron castings, manholes, gulleys and grates, cement, mineral dust, general supplies, gravel, granite sets, iron and steel, oils, sewer pipe, trap rock, sand, crushed stone and rubble stone. $150,000. R. C. Harris, city engr.

CONTRACTS AWARDED

Subway—Glenwood, Ia.—Mills Co., rein.-con. subway under double tracks of main line of Chicago, Burlington & Quincy R.R., to G. W. Condon, 510 Farnham Bldg., Omaha, $31,500.

Hydro Electric Development—Lac Du Bonnet—Manitoba Power Co., Ltd., Electric Ry. Chambers, Winnipeg, hydro electric development on Winnipeg River, at Great Falls, near here, 168,000 hp., incl. 130 x 400 ft. power house, to Northern Constr. Co., Union Bank Bldg., Winnipeg, and Fraser-Brace Ltd., 83 Craig St. W., Montreal, Que., total $10,000,000. Contract let for about 50% of project.